

SONY[®]

EIA/NTSC/PAL-M

Video Equipment

1994

Issued March 1994

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























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Symbols for connectors

	F-type female		6-pin (CCF) female		12-pin DUB male		20-pin female		XLR type male
	BNC female		6-pin (CCF) male		12-pin DUB female		24-pin male		XLR type female
	Phono		7-pin DUB male		12-pin male		33-pin male		AC OUT 3-pin female
	Phone female		7-pin DUB female		12-pin female		33-pin female		Push in terminal
	Mini female		8-pin female		14-pin (CCQ) male		Fuse holder		Mini DIN 4-pin
	4-pin male		10-pin (CCJ) male		14-pin (CCQ) female		AC IN 3-pin male		Slide switch
	4-pin female		10-pin (CCJ) female						

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1-1 Betacam SP 2000 PRO VTRs

PVW-2800

Recorder/player

BETACAM SP
2000 PRO

•Superior picture quality, inherent in the Betacam SP format •More than 90 minutes of recording/playback time using L-size Metal (for both recording and playback) or Oxide (for playback only) cassettes •High speed picture search provides recognizable color pictures at up to 10 times normal speed in forward and reverse (24 times in monochrome) •Two longitudinal audio channels with Dolby C-type NR (Noise Reduction) system •RS-422A 9-pin interface with other RS-422A equipped Sony machines (ex. Betacam/Betacam SP VTRs, BVU series U-matics) •Built-in comprehensive editing facilities •Dynamic Motion Control with memory provides slow-motion editing capability (when used with a player VTR equipped with DT function) •Built-in Time Base Corrector with advanced high quality digital dropout compensator •TBC remote control from an optional UVR-60 •Built-in LTC/VITC/User Bits generator and reader •Built-in character generator •Enhanced serviceability with built-in self-diagnostics •User friendly dial menu operation •Y/R-Y/ B-Y component signal inputs and outputs via BNC or 12-pin Betacam DUB connectors •S-video (Y/C separate) input/output connectors •7-pin U-matic DUB output capability (option) •Compact and lightweight (5 unit high, 19-inch rack mountable, approx. 25 kg/55 lb 2 oz) •Low power consumption (150 W)

Supplied accessories: AC power cord

Remote control cable RCC-5G (9-pin)
PSW 4 × 16 screws for rack mounting (4)
Operation manual

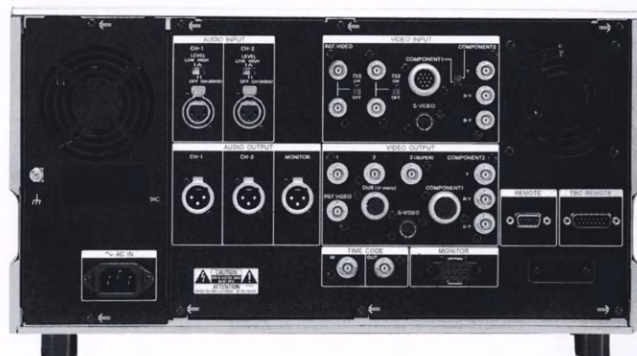
Optional accessories: TBC remote controller UVR-60
Component color corrector BVX-10
Control panel extension kit BKW-2010
U-matic DUB out kit BKW-2020
Control panel case BK-803
12-pin dubbing cable VDC-C5 (5m)
Remote control cable RCC-5G/10G/30G
(5m/10m/30m)
Rack mount kit RMM-110
S-video cable SYC-2/5 (2m/5m)

Specifications

General

Type: Recorder/Player
Video recording system: Rotary 4 head helical scan
Luminance: FM recording
Chrominance: FM recording (CTDM recording)
Video Signal system: EIA monochrome/NTSC color
Operating temperature: 5 to 40°C (41 to 104°F)
Storage temperature: -20 to 60°C (-4 to 140°F)
Power requirements: AC 90 to 132V, 48 to 64Hz
Power consumption: 150W
Humidity: Less than 80% (relative humidity)
Weight: Approx. 25kg (55 lb 2 oz)
Dimensions: 427(W) × 237(H) × 549(D)mm
(16⁷/₈ × 9³/₈ × 21⁵/₈ inches)
(including projecting parts)
Tape speed: 11.86cm/s
REC/Playback time: More than 90min with BCT-90MLA
More than 30min with BCT-30MA
Fast Forward/Rewind time: Less than 3min with BCT-90MLA
Search speed: SHUTTLE 19 steps, still to 24 times normal speed,
forward and reverse
JOG Frame by frame, forward and reverse

	Metal Particle Tape	Oxide Tape*
Video performance		
Bandwidth:		
Luminance (50% modulation)	30Hz to 4.5MHz ± 0.5 dB	30Hz to 4.0MHz ± 0.5 dB
Color difference (50% modulation)	30Hz to 1.5MHz ± 0.5 dB	30Hz to 1.5MHz ± 0.5 dB
S/N ratio:		
Luminance (COMPONENT IN/OUT)	More than 51dB	More than 48dB
Chrominance		
AM	More than 53dB	More than 50dB
PM	More than 53dB	More than 50dB



Differential gain	Less than 3%	Less than 3%
Differential phase	Less than 3°	Less than 3°
K-factor (2T pulse)	Less than 2%	Less than 3%
Y/C delay	Less than 20ns	Less than 20ns
Audio performance		
Frequency response (20dB below peak level)	50Hz to 15kHz ± 1.5 dB	50Hz to 15kHz ± 3.0 dB
S/N ratio (at 3% distortion level)	More than 72dB	More than 50dB (Dolby NR OFF)
Distortion T.H.D. (at 3% distortion level)	Less than 1.0%	Less than 2.0%
Wow and flutter	Less than 0.1% rms	Less than 0.1% rms

Signal inputs

REF VIDEO IN (BNC): 1.0Vp-p, 75Ω
VIDEO IN (BNC): Composite video, 1.0Vp-p, 75Ω, sync negative
COMPONENT IN 1 (12-pin male):
Luminance 1.0Vp-p, 75Ω, sync negative
Color difference R-Y: 0.7Vp-p, 75Ω, B-Y: 0.7Vp-p, 75Ω
COMPONENT IN 2 (BNC × 3):
Luminance 1.0Vp-p, 75Ω, sync negative
Color difference R-Y: 0.7Vp-p, 75Ω, B-Y: 0.7Vp-p, 75Ω
S-VIDEO IN:
Y: 1.0Vp-p, 75Ω
C: 0.286Vp-p (burst), 75Ω
AUDIO IN CH-1/2 (XLR 3-pin female):
LOW -60dBu, 3kΩ, balanced
HIGH +4dBu, 600Ω/10kΩ selectable, balanced
TIME CODE IN (BNC): 0.5V to 18Vp-p, 10kΩ

Signal outputs

VIDEO OUT 1 (BNC): Composite video, 1.0Vp-p, 75Ω, sync negative
VIDEO OUT 2 (BNC): Composite video, 1.0Vp-p, 75Ω, sync negative
VIDEO OUT 3 (BNC): Composite video, 1.0Vp-p, 75Ω, sync negative with or without character insertion
COMPONENT OUT 1 (12-pin male):
Luminance 1.0Vp-p, 75Ω, sync negative
Color difference R-Y: 0.7Vp-p, 75Ω, B-Y: 0.7Vp-p, 75Ω
COMPONENT OUT 2 (BNC × 3):
Luminance 1.0Vp-p, 75Ω, sync negative
Color difference R-Y: 0.7Vp-p, 75Ω, B-Y: 0.7Vp-p, 75Ω
AUDIO LINE OUT (XLR 3-pin male) CH-1/2:
+4dBu, 600Ω, balanced
AUDIO MONITOR OUT (XLR 3-pin male) CH-1/2:
+4dBu, 600Ω, balanced
U-matic DUB OUT (with an optional BKW-2020):
Y: 1.7Vp-p, 51Ω, C: 0.9Vp-p, 51Ω
S-VIDEO OUT:
Y: 1.0Vp-p, 75Ω, C: 0.286Vp-p (burst), 75Ω
TIME CODE OUT (BNC): 1.2Vp-p, 75Ω

* The specifications of "video/audio performance oxide tape" were measured by playing back material on a standard PVW series VTR that had been recorded on a standard BVW series Betacam SP VTR.

1-1 Betacam SP 2000 PRO VTRs

PVW-2650

Player with DT

•Superior picture quality, inherent in the Betacam SP format •Dynamic Tracking (DT) provides broadcast quality noiseless playback within -1 to +3 times normal speed •More than 90 minutes of playback time using the L-size cassettes with Metal or Oxide tape •High speed picture search provides recognizable color pictures at up to 10 times normal speed in forward and reverse (24 times in monochrome) •Two longitudinal audio channels with the Dolby C-type NR (Noise Reduction) system •Direct RS-422A 9-pin interface with other RS-422A equipped Sony machines (ex. Betacam/Betacam SP VTRs, BVU series U-matics) •Built-in Time Base Corrector with advanced high quality digital dropout compensator •TBC remote control from an optional UVR-60 •Built-in LTC/VITC/User Bits reader •Built-in character generator •Enhanced serviceability with built-in self-diagnostics •User friendly dial menu operation •Y/R-Y/B-Y component signal outputs via BNC or 12-pin Betacam DUB connectors •S-video (Y/C separate) output connector •7-pin U-matic DUB output capability (option) •Compact and lightweight (5 unit high, 19-inch rack mountable, approx. 25kg/55 lb 2 oz) •Low power consumption (130W)

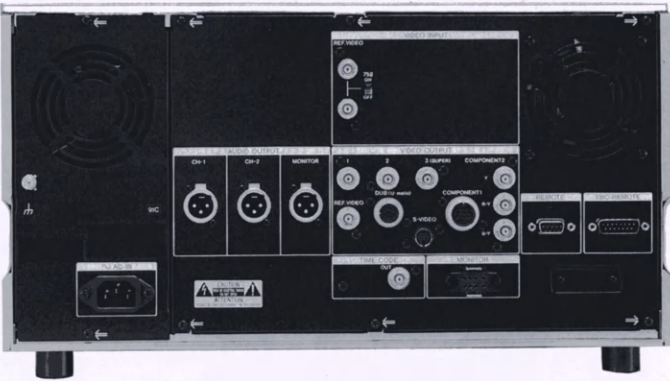
- Supplied accessories: AC power cord
Remote control cable RCC-5G (9-pin)
PSW 4 x 16 screws for rack mounting (4)
Operation manual
- Optional accessories: TBC remote controller UVR-60
Component color corrector BVX-10
Control panel extension kit BKW-2010
U-matic DUB out kit BKW-2020
Control panel case BK-803
12-pin dubbing cable VDC-C5 (5m)
Remote control cable RCC-5G/10G/30G (5 m/10m/30m)
Rack mount kit RMM-110
S-Video cable SYC-2/5 (2m/5m)

Specifications

General
Type: Player with DT
Video recording system: Rotary 4 head helical scan
Luminance: FM recording
Chrominance: FM recording (CTDM recording)
Video signal system: EIA monochrome/NTSC color
Operating temperature: 5 to 40°C (41 to 104°F)
Storage temperature: -20 to 60°C (-4 to 104°F)
Power requirements: AC 90 to 132V, 48 to 64Hz
Power consumption: 130W
Humidity: Less than 80% (relative humidity)
Dimensions: 427(W) x 237(H) x 549(D) mm
(16 7/8 x 9 3/8 x 21 5/8 inches)
Weight: Approx. 25kg (55 lb 2 oz)
Tape speed: 11.86cm/s
Playback time: More than 90min with BCT-90MLA
More than 30min with BCT-30MA
Fast Forward/Rewind time: Less than 3min with BCT-90MLA
Search speed: SHUTTLE 19 steps, still to 24 times normal speed, forward and reverse
JOG Frame by frame, forward and reverse
Dynamic Tracking Range: -1 to +3 times normal speed

	Metal Particle Tape	Oxide Tape*
Video performance		
Bandwidth:		
Luminance (50% modulation)	30Hz to 4.5MHz ± 0.5 dB	30Hz to 4.0MHz ± 0.5 dB
Colour difference (50% modulation)	30Hz to 1.5MHz ± 0.5 dB	30Hz to 1.5MHz ± 0.5 dB
S/N ratio:		
Luminance (COMPONENT IN/OUT)	More than 51dB	More than 48dB
Chrominance		
AM	More than 53dB	More than 50dB
PM	More than 53dB	More than 50dB
Differential gain	Less than 3%	Less than 3%
Differential phase	Less than 3°	Less than 3°
K-factor (2T pulse)	Less than 2%	Less than 3%
Y/C delay	Less than 20ns	Less than 20ns

BETACAM SP
2000 PRO



Audio performance		
Frequency response	50Hz to 15kHz ± 1.5 dB	50Hz to 15kHz ± 3.0 dB
S/N ratio (at 3% distortion level)	More than 72dB	More than 50dB (Dolby NR OFF)
Distortion T.H.D. (at 1kHz reference level)	Less than 1.0%	Less than 2.0%
Wow and flutter	Less than 0.1% rms	Less than 0.1% rms

Signal inputs
REF VIDEO IN (BNC): 1.0Vp-p, 75Ω

Signal outputs
VIDEO OUT 1 (BNC): Composite video, 1.0Vp-p, 75Ω, sync negative
VIDEO OUT 2 (BNC): Composite video, 1.0Vp-p, 75Ω, sync negative
VIDEO OUT 3 (BNC): Composite video, 1.0Vp-p, 75Ω, sync negative with or without character insertion

COMPONENT OUT 1 (12-pin male):
Luminance 1.0Vp-p, 75Ω, sync negative
Color difference R-Y: 0.7Vp-p, 75Ω, B-Y: 0.7Vp-p, 75Ω

COMPONENT OUT 2 (BNC x 3):
Luminance 1.0Vp-p, 75Ω, sync negative
Color difference R-Y: 0.7Vp-p, 75Ω, B-Y: 0.7Vp-p, 75Ω

AUDIO LINE OUT (XLR 3-pin male) CH-1/2:
+4dBu, 600Ω, balanced
AUDIO MONITOR OUT (XLR 3-pin male) CH-1/2:
+4dBu, 600Ω, balanced

U-matic DUB OUT (with an optional BKW-2020):
Y: 1.7Vp-p, 75Ω, C: 0.9Vp-p, 75Ω

S-VIDEO OUT:
Y: 1.0Vp-p, 75Ω, C: 0.286Vp-p (burst), 75Ω
TIME CODE OUT (BNC):
1.2Vp-p, 75Ω

* The specifications of "video/audio performance oxide tape" were measured by playing back material on a standard PVW series VTR that had been recorded on a standard BVW series Betacam SP VTR.

1-1 Betacam SP 2000 PRO VTRs

PVW-2600

Player

- Superior picture quality, inherent in the Betacam SP format
- More than 90 minutes of playback time using the L-size Metal or Oxide cassettes •High speed picture search provides recognizable color pictures at up to 10 times normal speed in forward and reverse (24 times in monochrome)
- Two longitudinal audio channels with the Dolby C-type NR (Noise Reduction) system •RS-422A 9-pin interface with other RS-422A equipped Sony machines (ex. Betacam/ Betacam SP VTRs, BVU series U-matics) •Built-in Time Base Corrector with advanced high quality digital dropout compensator •TBC remote control from an optional UVR-60
- Built-in LTC/VITC/User Bits reader •Built-in character generator •Enhanced serviceability with built-in self-diagnostics •User friendly dial menu operation •Y/R-Y/B-Y component signal outputs via BNC or 12-pin Betacam DUB connectors •S-video (Y/C separate) output connector •7-pin U-matic DUB output capability (option) •Compact and lightweight (5 unit high, 19-inch rack mountable, approx. 24.5kg/54 lb) •Low power consumption (120W)

Supplied accessories: AC power cord

Remote control cable RCC-5G (9-pin)
PSW 4 × 16 screws for rack mounting (4)

Operation manual

Optional accessories: TBC Remote Controller UVR-60

Component color corrector BVX-10

Control panel extension kit BKW-2010

U-matic DUB out kit BKW-2020

Control panel case BK-803

12-pin dubbing cable VDC-C5 (5m)

Remote control cable RCC-5G/10G/30G
(5m/10m/30m)

Rack mount kit RMM-110

S-video cable SYC-2/5 (2m/5m)

Specifications

General

Type: Player

Video recording system: Rotary 4 head helical scan

Luminance: FM recording

Chrominance: FM recording (CTDM recording)

Video Signal system: EIA monochrome/NTSC color

Operating temperature: 5 to 40°C (41 to 104°F)

Storage temperature: -20 to 60°C (-4 to 140°F)

Power requirements: AC 90 to 132V, 48 to 64Hz

Power consumption: 120W

Humidity: Less than 80% (relative humidity)

Dimensions: 427(W) × 237 (H) × 549(D)mm

(16⁷/₈ × 9³/₈ × 21⁵/₈ inches)

Weight : Approx. 24.5kg (54 lb)

Tape speed: 11.86cm/s

Playback time: More than 90min with BCT-90MLA

More than 30min with BCT-30MA

Fast Forward/Rewind time:

Less than 3min with BCT-90MLA

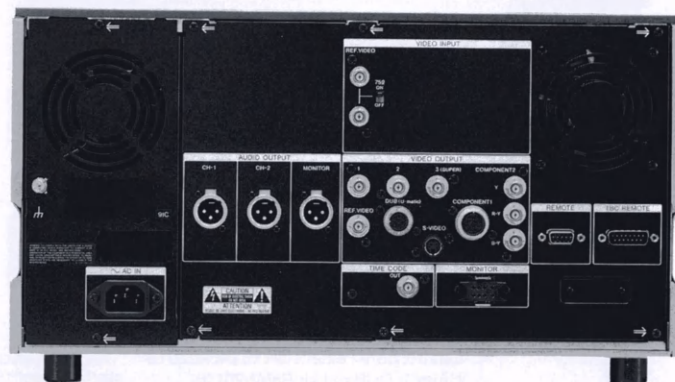
Search speed:

SHUTTLE 19 steps, still to 24 times normal speed,
forward and reverse

JOG Frame by frame, forward and reverse

	Metal Particle Tape	Oxide Tape*
Video performance		
Bandwidth:		
Luminance	30Hz to 4.5MHz ± 0.5 dB	30Hz to 4.0MHz ± 0.5 dB
(50% modulation)		
Color difference	30Hz to 1.5MHz ± 0.5 dB	30Hz to 1.5MHz ± 0.5 dB
(50% modulation)		
S/N ratio:		
Luminance	More than 51dB	More than 48dB
(COMPONENT IN/OUT)		
Chrominance	More than 53dB	More than 50dB
AM	More than 53dB	More than 50dB
PM	Less than 3°	Less than 3°
Differential gain	Less than 3°	Less than 3°
Differential phase	Less than 2°	Less than 3°
K-factor (2T pulse)	Less than 20ns	Less than 20ns
Y/C delay		
Audio performance		
Frequency response	50Hz to 15kHz ± 1.5 dB	50Hz to 15kHz ± 3.0 dB
(20dB below peak level)		
S/N ratio	More than 72dB	More than 50dB (Dolby NR OFF)
(at 3% distortion level)		

BETACAM SP
2000PRO



Distortion T.H.D (at 3% distortion level)	Less than 1.0%	Less than 2.0%
Wow and flutter	Less than 0.1% rms	Less than 0.1% rms

Signal inputs

REF VIDEO IN (BNC): 1.0Vp-p, 75Ω

Signal outputs

VIDEO OUT 1 (BNC): Composite video, 1.0Vp-p, 75Ω, sync negative

VIDEO OUT 2 (BNC): Composite video, 1.0Vp-p, 75Ω, sync negative

VIDEO OUT 3 (BNC): Composite video, 1.0Vp-p, 75Ω, sync negative
with or without character insertion

COMPONENT OUT 1 (12-pin male):

Luminance 1.0Vp-p, 75Ω, sync negative

Color difference R-Y: 0.7Vp-p, 75Ω, B-Y: 0.7Vp-p, 75Ω

COMPONENT OUT 2 (BNC × 3):

Luminance 1.0Vp-p, 75Ω, sync negative

Color difference R-Y: 0.7Vp-p, 75Ω, B-Y: 0.7Vp-p, 75Ω

AUDIO LINE OUT (XLR 3-pin male) CH-1/2:

+4dBu, 600Ω, balanced

AUDIO MONITOR OUT (XLR 3-pin male) CH-1/2:

+4dBu, 600Ω, balanced

U-matic DUB OUT (with an optional BKW-2020):

Y: 1.7Vp-p, 51Ω, C: 0.9Vp-p, 51Ω

S-VIDEO OUT:

Y: 1.0Vp-p, 75Ω, C: 0.286Vp-p (burst), 75Ω

TIME CODE OUT (BNC): 1.2Vp-p, 75Ω

* The specifications of "video/audio performance oxide tape" were measured by playing back material on a standard PVW series VTR that had been recorded on a standard BVU series Betacam SP VTR.

1-1 Betacam SP 2000 PRO VTRs

PPV-1A

Dockable recorder unit

- Superior picture quality, inherent in the Betacam SP format
- Full color playback in field through the optional VA-300
- More than 30 minutes of recording time using the S-size cassette (Metal particle tape only)
- Two longitudinal audio channels with the Dolby C-type Noise Reduction system
- Luminance or CTDM viewfinder playback
- Recognizable FF/REW pictures in viewfinder
- Full range of machine control provided (Fast Forward/Rewind/Play/Stop/Eject)
- Record review function
- Built-in LTC/VITC/ User Bits generator and LTC reader with external time code lock capability
- Frame accurate back space editing without time code discontinuity at the transition points
- 8-digit LCD display
- Built-in loud speaker
- Digital hours meter
- Built-in microphone external power supply (+48V, CH-1/2)
- Built-in self diagnostics with character display on TV monitor
- Enhanced serviceability

—As a Camcorder with the DXC-537A/327A—

- Directly connected via the Pro 50-pin connector
- Compact and lightweight

- PPV-1A/DXC-537A: Approx. 8.6kg/18 lb 15 oz
- PPV-1A/DXC-327A: Approx. 7.8kg/17 lb 3 oz
- (Both including the battery, cassette and zoom lens)
- Low power consumption
- PPV-1A/DXC-537A: Approx. 22.8W with viewfinder
- PPV-1A/DXC-327A: Approx. 20.5W with viewfinder
- Lightweight rugged magnesium diecast body

- Supplied accessories:
- Shoulder belt
 - Screws B4 × 12 (×2)
 - B4 × 6 (×2)
 - Operation manual

- Optional accessories:
- NiCd Rechargeable Battery NP-1B
 - NiCd Rechargeable Battery BP-90A
 - Battery case (for BP-90A, waist belt type) DC-210
 - Battery case (for NP-1B) DC-520
 - Battery case (for BP-90A) DC-500
 - Battery charger BC-1WD
 - Battery charger BC-410
 - Camera adaptor CMA-8A
 - Camera adaptor (for BVP series) CA-514
 - Playback adaptor VA-300
 - Power cable (for CMA-8A) CCQX-3

Specifications

General

- Type: Dockable Recorder Unit
- Operating temperature: 0 to 40°C (32 to 104°F)
- Storage temperatures: -20 to 60°C (-4 to 140°F)
- Power requirements: DC 12V ±5.5dB
- Power consumption: 10W
- Humidity: Less than 85% (relative humidity)
- Weight: Approx. 3.4kg (7 lb 8 oz)
- Tape speed: 11.86cm/s
- REC/Playback time: More than 30min with BCT-30MA
- Fast Forward time: Less than 4.5min with BCT-30MA
- Rewind time: Less than 4.0min with BCT-30MA
- Continuous operating time: Approx. 70min with NP-1B (PPV-1A and DXC-327A)

Vlideo performance (Metal Particle Tape)*

- Bandwidth:
- Luminance (50% modulation) 30Hz to 4.5MHz ±3.5dB
 - Color difference (50% modulation) 30Hz to 1.5MHz ±3.5dB

- S/N ratio:
- Luminance (Component IN/OUT) More than 51dB

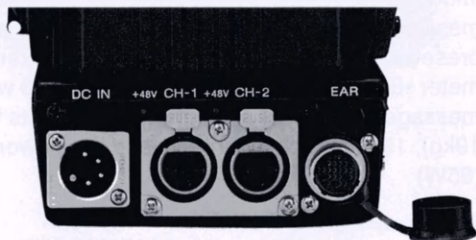
- Color difference
- AM More than 53dB
 - PM More than 53dB

- K-pulse (2T pulse): Less than 2%
- Y/C delay: Less than 20ns

Audio performance (Metal Particle Tape)*

- Frequency response: 50Hz to 15kHz ±1.5dB
- S/N ratio (at 3% distortion level): More than 72dB
- Distortion T.H.D. (at 1kHz reference level): Less than 1.5%

BETACAM SP
2000 PRO



Wow and flutter (DIN weighted): Less than 0.15% rms

Signal inputs/outputs

VIDEO (from the camera head, Pro 50-pin):

- Luminance 1.0Vp-p, 1kΩ
- Color difference B-Y/R-Y: 0.7Vp-p, 1kΩ

GEN LOCK VIDEO IN (BNC):

- 1.0Vp-p, 75Ω

AUDIO IN CH-1/2 (XLR 3-pin female):

- 60dBu/+4dBu selectable, high impedance, balanced

TIME CODE IN (BNC): 1.0Vp-p, 75Ω

ENCODED VIDEO OUT (Camera Video Out, BNC):

- 1.0Vp-p, 75Ω

TIME CODE OUT (BNC):

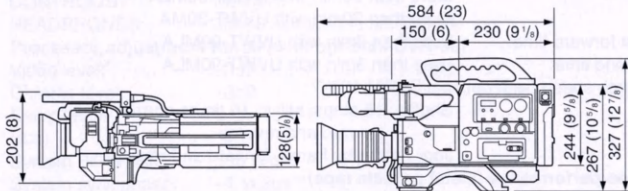
- 1.0Vp-p, 75Ω

Others

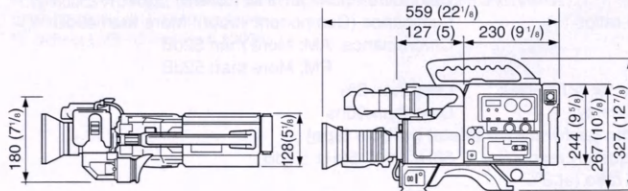
- EARPHONE OUT: Mini jack
- PLAYBACK ADAPTOR: 20-pin

* The specifications of "video/audio performance" were measured by playing back material on a standard PVW series that had been recorded on a PPV-1A.

PPV-1A/DXC-537A Dimensions



PPV-1A/DXC-327A Dimensions



Unit: mm (inch)

VIDEOCASSETTE
RECORDERS

1-2 UVW series Betacam SP VTRs

UVW-1800

Editing recorder/player

•Outstanding picture quality, thanks to Betacam SP format
•More than 90 minutes of recording/playback time using L-size metal Betacam SP cassettes •Two longitudinal audio channel with the Dolby C-type Noise Reduction system shown in unique bargraph indicators •Frame accurate editing: assemble and insert (video, audio CH-1, audio CH-2 and time code) editing capability when controlled from optional RS-422A equipped editing controller unit •Dedicated longitudinal time code track •Built-in Time Base Corrector with advanced high quality digital dropout compensation •Built-in SMPTE time code (LTC/User-bit) generator and reader •RS-422A 9-pin interface •Y/R-Y/B-Y component signal input and output via BNC or 12-pin DUB connectors •S-video (Y/C separate) input/output connectors •Optional TBC Remote Control Unit UVR-60 •High speed picture search provides recognizable color picture at up to 5 times normal speed in forward and reverse (16 times in monochrome) •Built-in character generator to monitor display information such as VTR status, time code, self-diagnostic message, setup menu, and so on •Initial setup menu to preset various detailed operational parameters •Digital hours meter •Built-in self diagnostics with detailed warning messages •Compact and lightweight (4 units high, approx. 19kg), 19-inch rack mountable and low power consumption (85W)

Supplied accessories: AC power cord
Remote control cable RCC-5G (9-pin)
Operation manual
Optional accessories: TBC Remote controller UVR-60
Component color corrector BVX-10
Remote control cable RCC-5G/10G/30G (5m/10m/30m)
12-pin dubbing cable VDC-C5 (5m)
Remote control unit SVRM-100
Rack mount unit RMM-130

Specifications

General

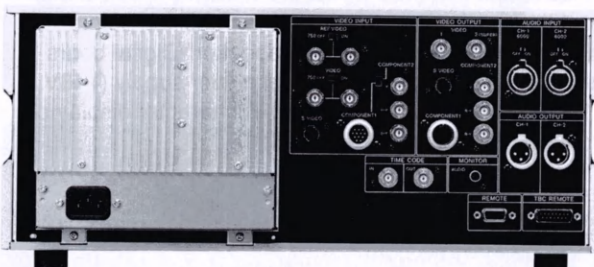
Type: Editing recorder/player
Video recording system: Rotary 4 head helical scan
Luminance: FM recording
Chrominance: FM recording (CTDM recording)
Video signal system: EIA monochrome/NTSC color
Power requirements: AC 90 to 132V, 48 to 64Hz
Power consumption: 85W
Operating temperature: 5 to 40°C (41 to 104°F)
Storage temperature: -20 to 60°C (-4 to 140°F)
Humidity: Less than 80% (relative humidity)
Dimensions: 427(W) × 193(H) × 474(D)mm
(16⁷/₈ × 7⁵/₈ × 18³/₄ inches)
Weight: Approx. 19kg (41 lb 14 oz)
Tape speed: 118.6mm/s
Recording/playback time: More than 90min with UVWT-90MLA
More than 30min with UVWT-30MA
Fast forward time: Less than 3min with UVWT-90MLA
Rewind time: Less than 3min with UVWT-90MLA
Search speed (with optional SVRM-100)*1: Shuttle: 15 steps, still to 16 times normal speed, forward and reverse
Jog: Frame by frame, forward and reverse

Video performance (Metal particle tape)

Bandwidth (50% modulation): Luminance: 30Hz to 4.0MHz ± 1.8 dB
Color difference: 30Hz to 1.5MHz ± 1.8 dB
S/N ratio: Luminance (Component in/out): More than 49dB
Chrominance: AM; More than 52dB
PM; More than 52dB
K-factor (2T pulse): Less than 3%
Y/C delay: Less than 30ns

Audio performance (Metal particle tape)

Frequency response: 50Hz to 12.5kHz ± 3.8 dB
S/N ratio (at 3% distortion level): More than 70dB



Distortion T.H.D. (at 1kHz/reference level): Less than 1.5%
Wow and flutter: Less than 0.18% rms
Signal inputs
REF VIDEO IN: BNC, 1.0Vp-p, 75Ω
VIDEO IN: BNC, Composite video, 1.0Vp-p, 75Ω, sync negative
COMPONENT IN-1: 12-pin male, Luminance: 1.0Vp-p, 75Ω, sync negative
Color difference: R-Y; 0.7Vp-p, 75Ω
B-Y; 0.7Vp-p, 75Ω
COMPONENT IN-2: BNC (×3), Luminance: 1.0Vp-p, 75Ω, sync negative
Color difference: R-Y; 0.7Vp-p, 75Ω
B-Y; 0.7Vp-p, 75Ω
S-VIDEO IN: Mini DIN 4-pin, Y: 1.0Vp-p, 75Ω
C: 0.286Vp-p (burst), 75Ω
AUDIO IN CH-1/2: XLR 3-pin female, 4dBu, 600Ω/10kΩ selectable balanced
TIME CODE IN: BNC, 0.5V to 18Vp-p, 600Ω
Signal outputs
VIDEO OUT-1: BNC, Composite video, 1.0Vp-p, 75Ω, sync negative
VIDEO OUT-2: BNC, Composite video, 1.0Vp-p, 75Ω, sync negative, with or without character insertion
COMPONENT OUT-1: 12-pin female, Luminance: 1.0Vp-p, 75Ω, sync negative
Color difference: R-Y; 0.7Vp-p, 75Ω
B-Y; 0.7Vp-p, 75Ω
COMPONENT OUT-2: BNC (×3), Luminance: 1.0Vp-p, 75Ω, sync negative
Color difference: R-Y; 0.7Vp-p, 75Ω
B-Y; 0.7Vp-p, 75Ω
AUDIO LINE OUT CH-1/2: XLR 3-pin, male, 4dBu, 600Ω, balanced
AUDIO MONITOR OUT CH-1/2: Phono, -6dBu
S-VIDEO OUT: Mini DIN 4-pin, Y: 1.0Vp-p, 75Ω
C: 0.286Vp-p (burst), 75Ω
TIME CODE OUT: BNC, 2.2Vp-p, 600Ω
Others
REMOTE IN/OUT: 9-pin female
TBC REMOTE: 15-pin male
CONTROL/S: Mini jack
HEADPHONES: JM-60 headphone stereo jack
Processor adjustment range (with optional UVR-60)
Video level: ± 3 dB
Chroma level: ± 3 dB
Setup level: 0 to +15 IRE
HUE: $\pm 15^\circ$
System SC phase: 360°p-p*2
System sync phase: -1 to 3μs*3
Y/C delay: ± 100 ns

*1 Without SVRM-100 attached, search speed is 16 times forward and reverse.

*2 With or without UVR-60 attached

*3 Without UVR-60 attached: ± 300 ns

1-2 UVW series Betacam SP VTRs

UVW-1600

Editing player

- Outstanding picture quality, thanks to Betacam SP format
- More than 90 minutes of playback time using L-size metal Betacam SP cassettes
- Two longitudinal audio channel with the Dolby C-type Noise Reduction system shown in unique bargraph indicators
- Dedicated longitudinal time code track
- Built-in Time Base Corrector with advanced high quality digital dropout compensation
- Built-in SMPTE time code (LTC/User-bit) reader
- RS-422A 9-pin interface
- Y/R-Y/B-Y component signal output via BNC or 12-pin DUB connector
- S-video (Y/C separate) output connector
- Optional TBC Remote Control Unit UVR-60
- High speed picture search provides recognizable color picture at up to 5 times normal speed in forward and reverse (16 times in monochrome)
- Built-in character generator to monitor display information such as VTR status, time code, self-diagnostic message, setup menu, and so on
- Initial setup menu to preset various detailed operational parameters
- Digital hours meter
- Built-in self diagnostics with detailed warning messages
- Compact and lightweight (4 units high, approx. 18kg), 19-inch rack mountable and low power consumption (65W)

- Supplied accessories: AC power cord
Remote control cable RCC-5G (9-pin)
Operation manual
- Optional accessories: TBC Remote controller UVR-60
Component color corrector BVX-10
Remote control cable RCC-5G/10G/30G (5m/10m/30m)
12-pin dubbing cable VDC-C5 (5m)
Remote control unit SVRM-100
Rack mount unit RMM-130

Specifications

General

- Type: Editing player
- Video recording system: Rotary 4 head helical scan
Luminance: FM recording
Chrominance: FM recording (CTDM recording)
- Video signal system: EIA monochrome/NTSC color
- Power requirements: AC 90 to 132V, 48 to 64Hz
- Power consumption: 65W
- Operating temperature: 5 to 40°C (41 to 104°F)
- Storage temperature: -20 to 60°C (-4 to 140°F)
- Humidity: Less than 80% (relative humidity)
- Dimensions: 427(W) × 193(H) × 474(D)mm
(16⁷/₈ × 7⁵/₈ × 18³/₄ inches)
- Weight: Approx. 18kg (39 lb 10 oz)
- Tape speed: 118.6mm/s
- Playback time: More than 90min with UVWT-90MLA
More than 30min with UVWT-30MA
Less than 3min with UVWT-90MLA
- Fast forward time: Less than 3min with UVWT-90MLA
- Rewind time: Less than 3min with UVWT-90MLA
- Search speed (with optional SVRM-100)*1:
Shuttle: 15 steps, still to 16 times normal speed, forward and reverse
Jog: Frame by frame, forward and reverse

Video performance (Metal particle tape)

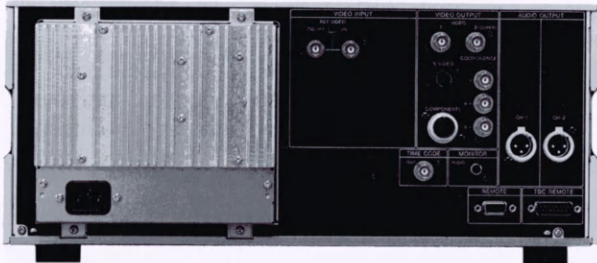
- Bandwidth (50% modulation): Luminance: 30Hz to 4.0MHz ±1.0dB
Color difference: 30Hz to 1.5MHz ±1.0dB
- S/N ratio: Luminance (Component out): More than 49dB
Chrominance: AM; More than 52dB
PM; More than 52dB
- K-factor (2T pulse): Less than 3%
- Y/C delay: Less than 30ns

Audio performance (Metal particle tape)

- Frequency response: 50Hz to 12.5kHz ±3.0dB
- S/N ratio (at 3% distortion level): More than 70dB
- Distortion T.H.D. (at 1kHz at reference level): Less than 1.5%
- Wow and flutter: Less than 0.18% rms

Signal inputs

- REF VIDEO IN: BNC, 1.0Vp-p, 75Ω



VIDEOCASSETTE
RECORDERS

Signal outputs

- VIDEO OUT-1: BNC, Composite video, 1.0Vp-p, 75Ω, sync negative
- VIDEO OUT-2: BNC, Composite video, 1.0Vp-p, 75Ω, sync negative, with or without character insertion
- COMPONENT OUT-1: 12-pin female,
Luminance: 1.0Vp-p, 75Ω, sync negative
Color difference: R-Y; 0.7Vp-p, 75Ω
B-Y; 0.7Vp-p, 75Ω
- COMPONENT OUT-2: BNC (×3),
Luminance: 1.0Vp-p, 75Ω, sync negative
Color difference: R-Y; 0.7Vp-p, 75Ω
B-Y; 0.7Vp-p, 75Ω
- AUDIO LINE OUT CH-1/2: XLR 3-pin male, 4dBu, 600Ω, balanced
- AUDIO MONITOR OUT CH-1/2: Phono, -6dBu
- S-VIDEO OUT: Mini DIN 4-pin,
Y: 1.0Vp-p, 75Ω
C: 0.286Vp-p (burst), 75Ω
- TIME CODE OUT: BNC, 2.2Vp-p, 600Ω
- Others
- REMOTE IN/OUT: 9-pin female
- TBC REMOTE: 15-pin male
- CONTROL/S: Mini jack
- HEADPHONES: JM-60 headphone stereo jack
- Processor adjustment range (with optional UVR-60)
- Video level: ±3dB
- Chroma level: ±3dB
- Setup level: 0 to +15 IRE
- Hue: ±15°
- System SC phase: 360°p-p*2
- System sync phase: -1 to 3μs*3
- Y/C delay: ±100ns

*1 Without SVRM-100 attached, search speed is 16 times forward and reverse.
*2 With or without UVR-60 attached
*3 Without UVR-60 attached: ±300ns

1-2 UVW series Betacam SP VTRs

UVW-1400

Recorder/player

•Outstanding picture quality, thanks to Betacam SP format
 •More than 90 minutes of recording/playback time using L-size metal Betacam SP cassettes •Two longitudinal audio channel with the Dolby C-type Noise Reduction system shown in unique bargraph indicators •Dedicated longitudinal time code track •Built-in Time Base Stabilizer with advanced high quality digital dropout compensation •Built-in SMPTE time code (LTC/User-bit) generator and reader •25-pin remote control interface complied with RS-232C interface for external computer operation •Y/R-Y/B-Y component signal inputs and outputs via BNC connectors are switchable to RGB input/output connector •S-video (Y/C separate) input/output connectors •Back space editing for smooth transitions between scenes with optional remote controller
 •High speed picture search provides recognizable color picture at up to 5 times normal speed in forward and reverse (16 times in monochrome) •Built-in character generator to monitor display information such as VTR status, time code, self-diagnostic message, setup menu, and so on •Auto repeat function •Initial setup menu to preset various detailed operational parameters •Digital hours meter •Built-in self diagnostics with detailed warning messages •Compact and lightweight (4 units high, approx. 19kg), 19-inch rack mountable and low power consumption (85W)

Supplied accessories: AC power cord

Operation manual

Remote control protocol manual

Optional accessories: Component color corrector BVX-10

Remote control unit SVRM-100

Rack mount unit RMM-130

Specifications

General

Type: Recorder/player

Video recording system:

Rotary 4 head helical scan

Luminance: FM recording

Chrominance: FM recording (CTDM recording)

Video signal system: EIA monochrome/NTSC color

Power requirements: AC 90 to 132V, 48 to 64Hz

Power consumption: 85W

Operating temperature: 5 to 40°C (41 to 104°F)

Storage temperature: -20 to 60°C (-4 to 140°F)

Humidity: Less than 80% (relative humidity)

Dimensions: 427(W) × 193(H) × 474(D)mm

(16⁷/₈ × 7⁵/₈ × 18³/₄ inches)

Weight: Approx. 19kg (41 lb 14 oz)

Tape speed: 118.6mm/s

Recording/playback time:

More than 90min with UVWT-90MLA

More than 30min with UVWT-30MA

Fast forward time: Less than 3min with UVWT-90MLA

Rewind time: Less than 3min with UVWT-90MLA

Search speed (with optional SVRM-100)*:

Shuttle: 15 steps, still to 16 times normal speed, forward and reverse

Jog: Frame by frame, forward and reverse

Video performance (Metal particle tape)

Bandwidth (50% modulation):

Luminance: 30Hz to 4.0MHz ±1.8dB

Color difference: 30Hz to 1.5MHz ±1.8dB

S/N ratio: Luminance (Component in/out): More than 49dB

Chrominance: AM; More than 52dB

PM; More than 52dB

K-factor (2T pulse): Less than 3%

Y/C delay: Less than 30ns

Audio performance (Metal particle tape)

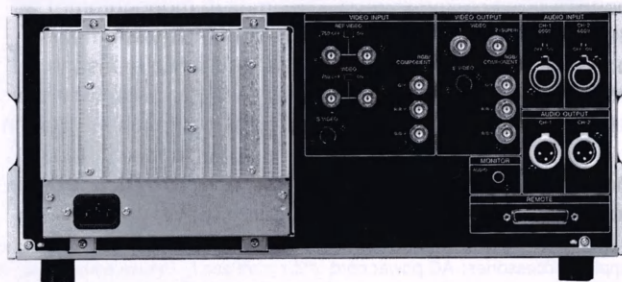
Frequency response: 50Hz to 12.5kHz ±3.8dB

S/N ratio (at 3% distortion level): More than 70dB

Distortion T.H.D. (at

1kHz at reference level): Less than 1.5%

Wow and flutter: Less than 0.18% rms



Signal inputs

REF VIDEO IN:

BNC, 1.0Vp-p, 75Ω

VIDEO IN:

BNC, Composite video, 1.0Vp-p, 75Ω, sync negative

RGB/COMPONENT IN:

BNC (×3),

Y/Sync on G: 1.0Vp-p, 75Ω, sync negative

R-Y/R: 0.7Vp-p, 75Ω

B-Y/B: 0.7Vp-p, 75Ω

S-VIDEO IN:

Mini DIN 4-pin,

Y: 1.0Vp-p, 75Ω

C: 0.286Vp-p (burst), 75Ω

AUDIO IN CH-1/2:

XLR 3-pin female, 4dBu, 600Ω/10kΩ selectable balanced

Signal outputs

VIDEO OUT-1:

BNC, Composite video, 1.0Vp-p, 75Ω, sync negative

VIDEO OUT-2:

BNC, Composite video, 1.0Vp-p, 75Ω, sync negative, with or without character insertion

RGB/COMPONENT OUT:

BNC (×3),

Y/Sync on G: 1.0Vp-p, 75Ω, sync negative

R-Y/R: 0.7Vp-p, 75Ω

B-Y/B: 0.7Vp-p, 75Ω

AUDIO LINE OUT CH-1/2:

XLR 3-pin male, 4dBu, 600Ω, balanced

AUDIO MONITOR OUT CH-1/2:

Phono, -6dBu

S-VIDEO OUT:

Mini DIN 4-pin,

Y: 1.0Vp-p, 75Ω

C: 0.286Vp-p (burst), 75Ω

Others

REMOTE IN/OUT:

25-pin female complied with RS-232C

CONTROL/S:

Mini jack

HEADPHONES:

JM-60 headphone stereo jack

* Without SVRM-100 attached, search speed is 16 times forward and reverse.

1-2 UVW series Betacam SP VTRs

UVW-1200

Player

- Outstanding picture quality, thanks to Betacam SP format
- More than 90 minutes of playback time using L-size metal Betacam SP cassettes
- Two longitudinal audio channel with the Dolby C-type Noise Reduction system
- Dedicated longitudinal time code track
- Built-in Time Base Stabilizer with advanced high quality digital dropout compensation
- Built-in SMPTE time code (LTC/User-bit) reader
- 25-pin remote control interface complied with RS-232C interface for external computer operation
- Y/R-Y/B-Y component signal outputs via BNC connectors are switchable to RGB output connector
- S-video (Y/C separate) output connector
- High speed picture search provides recognizable color picture at up to 5 times normal speed in forward and reverse (16 times in monochrome)
- Built-in character generator to monitor display information such as VTR status, time code, self-diagnostic message, setup menu, and so on
- Auto repeat function
- Initial setup menu to preset various detailed operational parameters
- Digital hours meter
- Built-in self diagnostics with detailed warning messages
- Compact and lightweight (4 units high, approx. 17.5kg), 19-inch rack mountable and low power consumption (63W)

Supplied accessories: AC power cord

Operation manual

Remote control protocol manual

Optional accessories: Component color corrector BVX-10

Remote control unit SVRM-100

Rack mount unit RMM-130

Specifications

General

Type: Player

Video recording system: Rotary 4 head helical scan

Luminance: FM recording

Chrominance: FM recording (CTDM recording)

Video signal system: EIA monochrome/NTSC color

Power requirements: AC 90 to 132V, 48 to 64Hz

Power consumption: 63W

Operating temperature: 5 to 40°C (41 to 104°F)

Storage temperature: -20 to 60°C (-4 to 140°F)

Humidity: Less than 80% (relative humidity)

Dimensions: 427(W) × 193(H) × 474(D)mm
(16⁷/₈ × 7⁵/₈ × 18³/₄ inches)

Weight: Approx. 17.5kg (38 lb 9 oz)

Tape speed: 118.6mm/s

Playback time: More than 90min with UVWT-90MLA
More than 30min with UVWT-30MA

Fast forward time: Less than 3min with UVWT-90MLA

Rewind time: Less than 3min with UVWT-90MLA

Search speed (with optional SVRM-100)*:

- Shuttle: 15 steps, still to 16 times normal speed, forward and reverse
- Jog: Frame by frame, forward and reverse

Video performance (Metal particle tape)

Bandwidth (50% modulation):

- Luminance: 30Hz to 4.0MHz ± 1.8 dB
- Color difference: 30Hz to 1.5MHz ± 1.8 dB

S/N ratio:

- Luminance (Component out): More than 49dB
- Chrominance: AM; More than 52dB
PM; More than 52dB

K-factor (2T pulse): Less than 3%

Y/C delay: Less than 30ns

Audio performance (Metal particle tape)

Frequency response: 50Hz to 12.5kHz ± 3.8 dB

S/N ratio (at 3% distortion level): More than 70dB

Distortion T.H.D. (at 1kHz at reference level): Less than 1.5%

Wow and flutter: Less than 0.18% rms

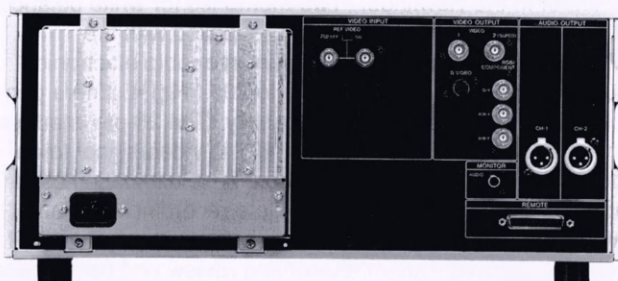
Signal inputs

REF VIDEO IN: BNC, 1.0Vp-p, 75Ω

Signal outputs

VIDEO OUT-1: BNC, Composite video, 1.0Vp-p, 75Ω, sync negative

VIDEO OUT-2: BNC, Composite video, 1.0Vp-p, 75Ω, sync negative, with or without character insertion



RGB/COMPONENT OUT:

BNC (×3),
Y/Sync on G: 1.0Vp-p, 75Ω, sync negative
R-Y/R: 0.7Vp-p, 75Ω
B-Y/B: 0.7Vp-p, 75Ω

AUDIO LINE OUT CH-1/2:

XLR 3-pin male, 4dBu, 600Ω, balanced

AUDIO MONITOR OUT CH-1/2:

Phono, -6dBu

S-VIDEO OUT:

Mini DIN 4-pin,
Y: 1.0Vp-p, 75Ω
C: 0.286Vp-p (burst), 75Ω

Others

REMOTE IN/OUT: 25-pin female complied with RS-232C

CONTROL/S: Mini jack

HEADPHONES: JM-60 headphone stereo jack

* Without SVRM-100 attached, search speed is 16 times forward and reverse.

UVW-100

Betacam SP One-Piece Camcorder

•High performance one-piece camcorder •Incorporates three 1/2-inch IT Hyper HAD sensors •High quality Betacam SP component recording format •High sensitivity of F8.0 at 2000 lx, high signal to noise ratio of 60dB, high horizontal resolution of 700TV lines •Compact and light weight approx. 6.9kg including the viewfinder, battery, cassette and lens •Low power consumption of 22.3W •More than 30 minutes of recording time using the S-size metal Betacam SP cassette •Programmable gain up (0 to 18dB) •ATW (Auto Tracing White Balance) •Total Level Control System provides optimum adjustments for any lighting conditions: AGC (Automatic Gain Control), CCD AE (Auto Exposure) and Intelligent Auto Iris •Built-in safety zone and center marker generator in the viewfinder •Two memories for white balance value • $\times 13$ zoom lens: VCL-713BX (supplied with the UVW-100K) •1/2-inch bayonet mount •Variable electronic shutter •Clear Scan function (59.9 to 200.3Hz) •Camera gen-lock and Time Code gen-lock capability •The 26-pin interface provides component, composite and Y/C video signal to an external VTR for simultaneous recording •Built-in time code generator and reader •Real Time/Date recording function •Two longitudinal audio channels with the Dolby C-Type NR (Noise Reduction) system •Recording review and back space editing function •Color playback in the field with the optional VA-300 Playback Adaptor •8-digit LCD display •Bargraph meter for audio level and battery status •Built-in earspeaker •External microphone power supply (+48V, Ch-1/2)



Supplied accessories: Tripod adaptor
External Microphone
Shoulder strap
Viewfinder
 $\times 13$ zoom lens (UVW-100K only)
Operational manual

Optional accessories: Battery pack NP-1B, BP-90A
Battery charger BC-1WD, BC-410
Battery adaptor DC-520, DC-500
AC adaptor AC-550
AC power adaptor CMA-8A
Playback adaptor VA-300
Remote controller RM-81
Carrying case LC-421
Rain cover LCR-1
26/26-pin cable CCZ-A cable
14/26-pin cable CCZQ-A cable
Tripod adaptor VCT-U14

Minimum illumination: 7.5 lx with F1.4 +18dB
Sensitivity: F8.0 at 2000 lx
Gain selection: 0dB
MID (1dB to 17dB in 1dB steps)
HIGH (2dB to 18dB in 1dB steps)
(MID < HIGH)
0dB to 18dB variable (AGC)
Shutter speed selection: OFF, 1/100, 1/250, 1/500, 1/1000, 1/2000s
Clear Scan range: 59.9Hz to 200.3 Hz
S/N ratio: 60dB
Registration: 0.05% (all zone, without lens)
Geometric distortion: Below measurable level
Camera: VBS: 1.0Vp-p, sync negative
26-pin connector: VBS: 1.0Vp-p, sync negative
Y: 1.0Vp-p, 75 Ω , sync negative
R-Y/B-Y: 0.7Vp-p
Y/C: {Y}: 1.0Vp-p, 75 Ω , sync negative
{C}: 0.286Vp-p (burst level)

Specifications

General

Type: One-piece camcorder
Power requirements: DC 12V ± 0.8 V
Power consumption: 20W (at 12V, without viewfinder)
Operating temperature: 0 to 40°C (32 to 104°F)
Storage temperature: -20 to 60°C (-4 to 140°F)
Humidity: Less than 85% (relative humidity)
Weight: 6.9kg (fully equipped with VF/lens/battery/MIC)
Tape speed: 118.6mm/s
Playback/recording time: More than 30min with UVWT-30MA
Fast forward time: Less than 7.5min with UVWT-30MA
Rewind time: Less than 5.5min with UVWT-30MA

Camera Head

Image device: Three 1/2-inch IT CCD sensors
Optics: F1.4 medium index prism system
Picture element: Total: 811 \times 508 (H \times V)
Effective: 768 \times 492 (H \times V)
Built-in filters: 1: 3200K
2: 5600K + 1/16ND
3: 5600K
Lens mount: 1/2-inch bayonet
Signal system: EIA standard (monochrome)
NTSC (color)
Horizontal resolution: 700TV lines

VTR Portion

Video
Recording system: Rotary 4-head helical scan system
R-Y/B-Y: FM recording (CTDM)
Y: FM recording
Time Code IN (BNC): 0.5V to 5Vp-p, 10k Ω
Time Code OUT (BNC): 1.0Vp-p, 75 Ω

Audio
Input: MIC: -60dBu, 3k Ω , balanced
Line: +4dBu, 10k Ω , balanced

Video Performance
Bandwidth: Y: 30Hz to 4.0MHz ± 1.8 dB
R-Y/B-Y: 30Hz to 1.5MHz ± 1.8 dB
S/N ratio: Y (Component IN/OUT): More than 49dB
R-Y/B-Y: More than 47dB
Distortion: K-factor: Less than 3%
Y/C delay: Less than 30ns

Audio Performance

Frequency response: 50Hz to 12.5kHz ± 3.8 dB
S/N ratio (at 3% distortion level): More than 70dB
Distortion T.H.D. (at 1kHz reference level): Less than 1.5%
Wow and flutter: Less than 0.18%rms

1-2 UVW series Betacam SP VTRs

- Connectors
- Playback adapter:

20-pin
- External VTR Connector:

26-pin
- Camera Video OUT:

BNC (×2)
- Camera GEN LOCK IN:

BNC
- Camera MIC IN:

XLR (3-pin) with 48V OUT
- Audio IN:

XLR (×2) (3-pin) with 48V OUT selectable
- Headphone OUT:

Stereo mini jack
- Remote:

Stereo mini jack
- Lens:

12-pin (for 2/3-inch lens)
- DC IN:

XLR 4-pin (for the optional CMA-8A)
- Time Code IN:

BNC
- Time Code OUT:

BNC

- Viewfinder (DXF-501)
- Picture tube:

1.5-inch monochrome
- Indicators:

REC/TALLY/BATT/SHUTTER/GAIN UP by LED
RF/SERVO/HUMID/SLACK/BATT END/TC/AUDIO
LEVEL/TAPE REMAIN/TAPE NEAR END/TAPE
END/LOW BATT/ OXIDE TAPE by superimposition
- Resolution:

600TV lines
- Power requirements:

DC 12V
- Power consumption:

2.3W
- Weight:

500g (1 lb 2 oz)
- Dimensions:

Approx. 182(W) × 68(H) × 205(D)mm
(7 1/4 × 2 3/4 × 8 1/3 inches)

- Zoom Lens (VCL-713BX supplied with UVW-100K)
- Focal length:

7.5 to 97.5mm
- Zoom ratio:

× 13
- Zoom control:

Manual/Motorized
- Maximum aperture ratio:

1:1.4
- Iris control/Auto selectable:

F1.4 to F16 and C (close)
- Range of object field (at the distance of 1.0 meter):

W (wide angle): 785 × 589mm (31 × 23 1/4 inches)
T (telephoto): 61.7 × 46mm (2 1/2 × 1 7/8 inches)
- Minimum object distance:

1.0m
- Filter thread:

ø = 72mm, P = 0.75
- Mount:

1/2-inch bayonet
- Weight:

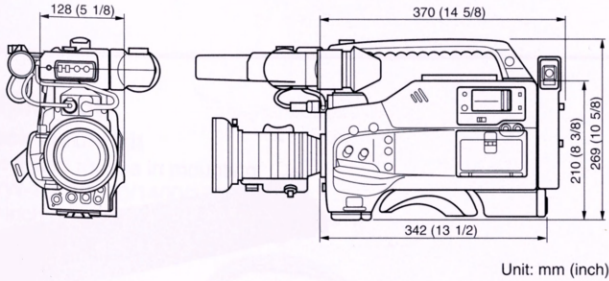
Approx. 950kg (2 lb 1 oz)
- Dimensions (ø × L):

Approx. 113 × 177mm
(4 1/2 × 7 inches)

Component Chart

Composition	Model	UVW-100K	UVW-100L
1/2-inch mount zoom lens		VCL-713BX (Supplied)	Optional
View finder		DXF-501 (Supplied)	DXF-501 (Supplied)
Tripod adapter		VCT-U14 (Supplied)	VCT-U14 (Supplied)
External Microphone		Supplied	Supplied
Shoulder strap		Supplied	Supplied
Operational manual		Supplied	Supplied

Dimensions



1-3 Betacam SP accessories

BVR-50

TBC remote controller

- Designed to control the Betacam studio VTR built-in TBCs
- 19-inch rack mountable: Can be installed individually with the supplied blank panel or together with the remote controller of the BVX-10 Component Color Corrector

Power requirements:

DC 12V (Supplied from the TBC)

Power consumption:

400mW

Weight: 820g (1 lb 13 oz)

Dimensions: 212(W) × 43.6(H) × 110(D)mm
(8³/₈ × 1³/₄ × 4³/₈ inches)

Supplied accessories:

- Remote control cable
(5m, 15-pin)
- Rack mount unit (2)
- Operation and maintenance
manual



UVR-60

TBC Remote controller

- Designed to control the Betacam SP studio VTR UVW-1800/1600 built-in TBCs
- 19-inch rack mountable: Can be installed individually with the supplied blank panel or with another UVR-60

Power requirements:

DC 12V, 9V (supplied from VTR)

Power consumption: 840mmW

Weight: 1.3kg (2 lb 13 oz)

Dimension: 215(W) × 44(H) × 101(D)mm
(8¹/₂ × 1³/₄ × 4 inches)

Supplied accessories:

- Remote control cable (5m)
- Rack mount bracket
- Blank panel
- Screw
- Operation manual



BVX-10

Component color corrector

- Component signal color corrector for Betacam VTR
- Preset/manual control of Gain, Black level and Gamma on R, G, B signals
- Easy connection—12-pin multi cables for component input and output, BNC connectors for component input and output (Y, B-Y, R-Y)
- Remote controller supplied (BVR-58)
- 19-inch rack mountable

Power requirements:

AC 90 to 132V, 50/60Hz

Power consumption:

40W

Weight: Main unit: 6.1kg (13 lb 7 oz)

Remote controller:

0.9kg (1 lb 15 oz)

Dimensions:

Main unit:
424(W) × 44(H) × 410(D)mm
(16³/₄ × 1³/₄ × 16¹/₄ inches)

Remote controller:

212(W) × 44(H) × 110(D)mm
(8³/₄ × 1³/₄ × 4³/₈ inches)

Supplied accessories:

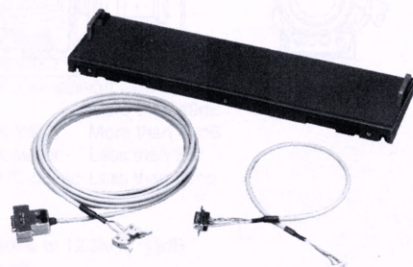
- Rack mount units (2)
- Remote control cable
(5m, 25-pin)
- Operation and maintenance
manual



BKW-2010

Control panel extension kit

- Designed to remotely control the PVW-2800/2650/2600
- Composition—Blank panel
15-pin remote control cable
Cable for the internal circuits



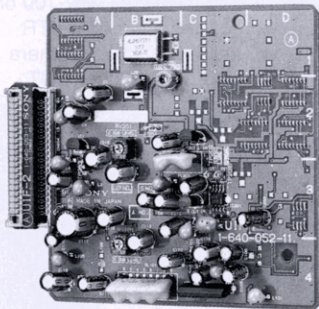
1-3 Betacam SP accessories

BKW-2020

U-matic DUB output kit

- Enables transformation of Betacam SP material from a PVW VTR to a U-matic VTR

Dimension: 100(W) × 104(H) × 15(D)mm
(4 × 4 1/8 × 9/32 inches)
Weight: 70g (2.5 oz)



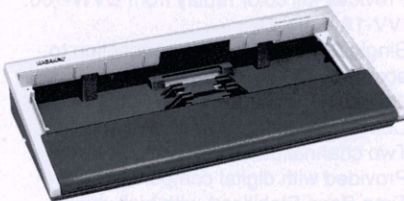
VIDEOCASSETTE
RECORDERS

BK-803

Control panel case

- Mounts the control panel which is removed from PVW-2800/2650/2600
- Used with BKW-2010

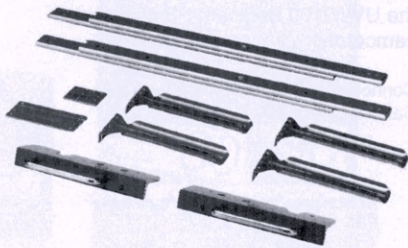
Dimension: 448(W) × 56.5(H) × 218(D)mm
(17 3/4 × 2 1/4 × 8 5/8 inches)



RMM-110

Rack mount kit

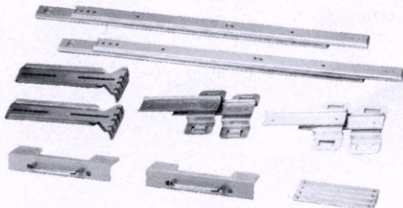
- Designed for use in mounting PVW-2800/2650/2600 into 19-inch rack



RMM-130

Rack mount kit

- Designed for use in mounting UVW-1800/1600/1400/1200 into 19-inch rack



1-3 Betacam SP accessories

AC-550

AC Adaptor

•Supplies DC power to the UVW-100 one-piece camcorder and a portable VTR through the 26-pin (CCZ-type) camera connector or the XLR 4-pin DC OUT connector

Supplied accessories: AC power cord
DC power cord
Operation and Maintenance manual

Power requirements:

AC 110 to 120V $\pm 10\%$
selectable, 60Hz

Power consumption:

Max 130W

DC output: 13.5V, 7A

Input/Output connectors:

CAMERA: CCZ-type 26-pin
VIDEO OUT: BNC type
MIC OUT: Equivalent to

XLR-3-31
DC OUT: Equivalent to

XLR-4-31

EXT VBS: BNC type

Dimensions: 217(W) \times 91(H) \times 327(D)mm
(8 $\frac{5}{8}$ \times 3 $\frac{5}{8}$ \times 12 $\frac{7}{8}$ inches)

Weight: 3.8kg (8 lb 6 oz)



VA-300

Playback Adaptor

•Provides full color replay from UVW-100, PVV-1A
•Single 20-pin multicable connection to recorder
•2m cable supplied with VA-300
•Composite and Y/C video signal output
•Two channel audio replay
•Provided with digital component TBS (Time Base Stabilizer) with high quality digital dropout compensation
•External SYNC lock capability

Power requirements:

DC 12V $\pm 5\%$

Power consumption:

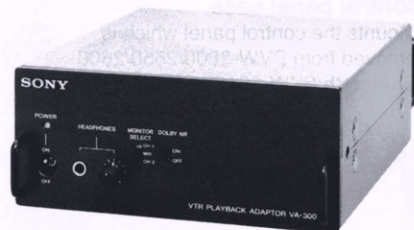
11W

Weight: Approx. 1.6kg (3 lb 8 oz)

Dimensions: 212(W) \times 88(H) \times 222(D)mm
(8 $\frac{3}{8}$ \times 3 $\frac{1}{2}$ \times 8 $\frac{3}{4}$ inches)

Supplied accessories:

Connecting cable (2m, 20-pin)
Operation manual

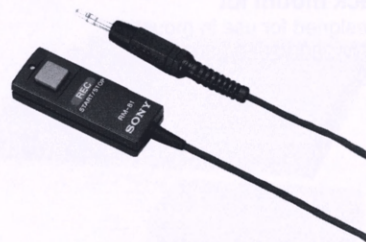


RM-81

Remote control unit

•To START/STOP the recording mode of the UVW-100 Betacam SP one-piece camcorder

Connector: Stereo mini
Cable length: 5m



1-4 Betacam SP videocassette tapes

BCT MA series metal videocassette tapes

BCT-5MA/10MA/20MA/30MA (Small cassettes)
BCT-5MLA/10MLA/20MLA/30MLA/60MLA/90MLA (Large cassettes)

Model	Tape length m (feet)	Playing time (min)	Weight* g (lb.)
BCT-5MA	42 (138)	6	260 (0.57)
BCT-10MA	78 (256)	11	270 (0.60)
BCT-20MA	150 (492)	21	285 (0.63)
BCT-30MA	222 (728)	31	300 (0.66)
BCT-30MLA	243 (797)	34	660 (1.46)
BCT-60MLA	457 (1,499)	64	730 (1.61)
BCT-90MLA	670 (2,198)	94	790 (1.74)

*With case

- For Betacam SP 2000 PRO VTRs PVW-2800/2650/2600, PVV-1A and BVW series Betacam SP VTRs
- The highest possible picture can be reproduced.



VIDEOCASSETTE
RECORDERS

UVWT series metal videocassette tapes

UVWT-10MA/20MA/30MA (Small cassettes)
UVWT-60MLA/90MLA (Large cassettes)

Model	Tape length m (feet)	Playing time (min)	Weight* g (lb.)
UVWT-10MA	78 (256)	11	270 (0.60)
UVWT-20MA	150 (492)	21	285 (0.63)
UVWT-30MA	222 (728)	31	300 (0.66)
UVWT-60MLA	457 (1,499)	64	730 (1.61)
UVWT-90MLA	670 (2,198)	94	790 (1.74)

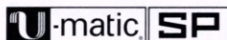
*With case

- Metal particle tape for UVW series VTRs
- UVW-1800/1600/1400/1200



2-1 U-matic VTRs

VO-9600



Recorder

•Superior Performance (SP) Technology for excellent quality picture through multi-generation recording •Completely interchangeable with conventional format •Dolby C-type Noise Reduction System for superior sound quality •BKU-701 Computer Interface Board (RS-232C) (optional) for external computer operation •FCG-700 Frame Code Generator (optional) for frame code recording •Frame Code Operation: random access and sophisticated program operation from the RX-707 optional Auto Search Control Unit or an external computer •Programmed operation with MARK IN A and MARK IN B •Timer operation for recording and playback operation using an external timer •33-pin REMOTE connector for remote operation from the RM-500/580 optional Remote Control Unit •Wired/wireless remote operation via the RM-770 optional Remote Control Unit •Search Dial for high speed picture search at STILL, 1/30, 1/10, 1/5, 1/2, 1, 2, 5 times normal speed in the forward and reverse directions •Audio dubbing on CH-1 for additional audio recording on the audio CH-1 •Audio XLR balanced connectors for connection with professional audio equipment •Connection to an external TBC •Connection to a TV receiver using the optional RF Modulator •19-inch Rack Mountable with the RMM-507

Supplied accessories: Operation manual

RF unit cover

Optional accessories: Frame code generator FCG-700
Computer interface board BKU-701
Auto search control unit RX-707
Remote control unit RM-770
Remote control unit RM-500/580
Dubbing cable VDC-5A (5m)
Colour RF kit RFK-634
Rack mount kit RMM-507

Specifications

General

Type: Recorder

Video recording system: Rotary 2 head helical scan

Luminance: FM recording

Chrominance: Converted subcarrier

Video signal system: EIA monochrome/NTSC colour

Operating temperature: 5 to 40°C (41 to 104°F)

Power requirements: AC 100 to 120V, 50/60Hz

Operating voltage: AC 90 to 132V

Power consumption: 75W (with RM-580 and RFK-634)

Dimensions: 424(W) × 192(H) × 492(D)mm

(16³/₄ × 7⁵/₈ × 19³/₈ inches)

Weight: 18kg (39 lb 11 oz)

Video signal

Recording and Playback mode:

Conventional and SP mode

Input: 1.0Vp-p±0.3V, 75Ω, unbalanced

Output: LINE: 1.0Vp-p±0.2V, 75Ω, unbalanced

Horizontal resolution:

SP mode 330 lines (color)

Conventional mode 250 lines (color)

S/N ratio (color):

SP mode Better than 46dB

Conventional mode Better than 46dB

SC input: 2.0V (0.5 to 3.0V)p-p, 75Ω, unbalanced

EXT sync input: 2.5V (1.0 to 5.0V)p-p, 75Ω, unbalanced, sync negative

RF OUT (OFF TAPE): 0.5Vp-p, 75Ω, unbalanced

Audio signal

Input: MIC: -60dBu, at 3kΩ load, unbalanced

LINE: -4dBu, at 10kΩ load, balanced

Output: LINE: +4dBu, at 600Ω load, balanced

HEADPHONE: -26 to -46dBu, at 8Ω load, unbalanced

MONITOR: -5dBu, at 47kΩ load, unbalanced

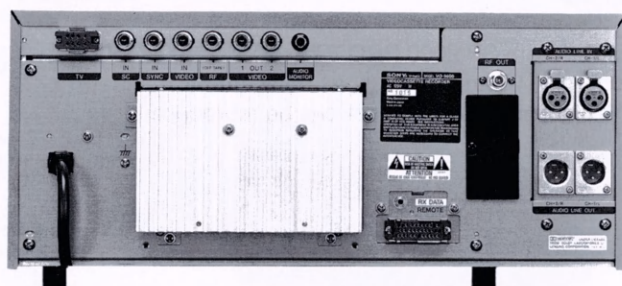
Frequency response: 50Hz to 15kHz

Wow and flutter: Less than 0.18% rms

S/N ratio:

SP mode (Dolby off) Better than 52dB (3% distortion)

Conventional mode Better than 50dB (3% distortion)



RF output

With optional RF kit

Tape transport

Tape speed: 9.53cm/s (3.8ips)

REC or PB time: Max. 60min

Videocassette: KSP/KSP-S/KCA-BRS/KCS-BRS

Technical features

Frame code operation: YES (with BKU-701)

Remote control: YES (33-pin and simple)

Electronic editing: NO

Time code editing: NO

Time code capability: NO

High speed picture search:

YES (1/30, 1/10, 1/5, 1/2, 1, 2, 5)

Jog search: NO

Noiseless pause/still: YES

Dolby noise reduction: YES (C-Type)

Audio dubbing: YES (CH-1)

EXT sync lock (vertical): YES

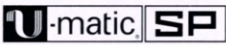
Programmed operation: YES (CTL and frame code counter with BKU-701)

Timer operation: YES (with an optional timer)

RF unit adaptable: YES

2-1 U-matic VTRs

VP-9000



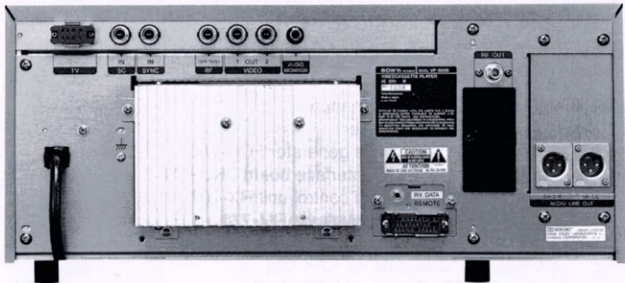
Player

- Superior Performance (SP) Technology for excellent quality picture through multi-generation recording
- Completely interchangeable with conventional format
- Dolby C-type Noise Reduction System for superior sound quality
- BKU-701 Computer Interface Board (RS-232C) (optional) for external computer operation
- Frame Code Operation: random access and sophisticated program operation from the RX-707 optional Auto Search Control Unit or an external computer
- Programmed operation with MARK IN A and MARK IN B
- Timer operation for playback using an external timer
- 33-pin REMOTE connector for remote operation from the RM-500/580 optional Remote Control Unit
- Wired/wireless remote operation via the RM-770 optional Remote Control Unit
- Search Dial for high speed picture search at STILL, 1/30, 1/10, 1/5, 1/2, 1, 2, 5 times normal speed in the forward and reverse directions
- Audio XLR balanced connector for connection with professional audio equipment
- Connection to an external TBC
- Connection to a TV receiver using the optional RF Modulator
- 19-inch Rack Mountable with the RMM-507

- Supplied accessories: Operation manual
RF unit cover
- Optional accessories: Frame code generator FCG-700
Computer interface board BKU-701
Auto search control unit RX-707
Remote control unit RM-770
Remote control unit RM-500/580
Dubbing cable VDC-5A (5m)
Colour RF kit RFK-634
Rack mount kit RMM-507

Specifications

- General**
Type: Player
Video signal system: EIA monochrome/NTSC color
Operating temperature: 5 to 40°C (41 to 104°F)
Power requirements: AC 100 to 120V, 50/60Hz
Operating voltage: AC 90 to 132V
Power consumption: 70W (with RM-580 and RFK-634)
Dimensions: 424(W) × 192(H) × 492(D)mm
(16³/₄ × 7⁵/₈ × 19³/₈ inches)
Weight: 18kg (39 lb 11 oz)
- Video signal**
Playback mode: Conventional and SP mode
Output: LINE: 1.0Vp-p±0.2V, 75Ω, unbalanced
Horizontal resolution: SP mode 330 lines (color)
Conventional mode 250 lines (color)
S/N ratio (color): SP mode Better than 46dB
Conventional mode Better than 46dB
SC input: 1.0V (0.5 to 3.0V)p-p, 75Ω, unbalanced
EXT sync input: 2.5V (1.0 to 5.0V) p-p, 75Ω, unbalanced, sync negative
RF OUT (OFF TAPE): 0.5Vp-p, 75Ω, unbalanced
- Audio signal**
Output: LINE: +4dBu, at 600Ω load, balanced
HEADPHONE: -26 to -46dBu, at 8Ω load, unbalanced
MONITOR: -5dBu, at 47kΩ load, unbalanced
Frequency response: 50Hz to 15kHz



- Wow and flutter: Less than 0.18% rms
S/N ratio: SP mode (Dolby off) Better than 52dB (3% distortion)
Conventional mode Better than 50dB (3% distortion)
With optional RF kit
- RF output**
Tape transport
Tape speed: 9.53cm/s (3.8ips)
PB time: Max. 60min
Videocassette: KSP/KSP-S/KCA-BRS/KCS-BRS
- Technical features**
Frame code operation: YES (with BKU-701)
Remote control: YES (33-pin and simple)
Electronic editing: NO
Time code editing: NO
Time code capability: NO
High speed picture search: YES (1/30, 1/10, 1/5, 1/2, 1, 2, 5)
Jog search: NO
Noiseless pause/still: YES
Dolby noise reduction: YES (C-Type)
Audio dubbing: NO
EXT sync lock (vertical): YES
Programmed operation: YES (CTL and frame code counter with BKU-701)
Timer operation: YES (with an optional timer)
RF unit adaptable: YES

SP IMPROVEMENTS

Videocassette	Recording U-matic	Playback U-matic	Luminance frequency response (resolution)	Luminance ringing	Chrominance ringing
SP tape	SP	SP	Very much improved	Very much improved	Very much improved
SP tape	SP	Conventional	Much improved	Much improved	Improved
SP tape	Conventional	SP	—	—	Improved
SP tape	Conventional	Conventional	—	—	—
Conventional tape	SP	SP	—	Much improved	Much improved
Conventional tape	SP	Conventional	—	Improved	Improved
Conventional tape	Conventional	SP	—	—	Improved
Conventional tape	Conventional	Conventional	—	—	—

VO-7600

Recorder

•High quality U-matic picture and sound •BKU-701 Computer Interface Board (RS-232C) (optional) for external computer operation •FCG-700 Frame Code Generator (optional) for frame code recording •Frame Code Operation: random access and sophisticated program operation from the RX-707 optional Auto Search Control Unit or an external computer •Programmed operation with MARK IN A and MARK IN B •33-pin REMOTE connector for remote operation from the RM-500/580 optional Remote Control Unit •Wired/wireless remote operation via the RM-770 optional Remote Control Unit •Timer operation for recording and playback using an external timer •High speed picture search at ± 5 times normal speed •Audio dubbing on CH-1 for additional audio recording on the audio CH-1 •External SYNC input •Connection to a TV receiver using the optional RF Modulator •19-inch Rack Mountable with the RMM-507

Supplied accessories: Operation manual
RF unit cover

Optional accessories: Frame code generator FCG-700
Computer interface board BKU-701
Auto search control unit RX-707
Remote control unit RM-770
Remote control unit RM-500/580
Colour RF kit RFK-634
Rack mount kit RMM-507

Specifications

General

Type: Recorder
Video recording system: Rotary 2-head helical scan
Luminance: FM recording
Chrominance: Converted subcarrier
Video signal system: EIA monochrome/NTSC color
Operating temperature: 5 to 40°C (41 to 104°F)
Power requirements: AC 100 to 120V 50/60Hz
Operating voltage: AC 90 to 132V
Power consumption: 70W (with RM-580 and RFK-634)
Dimensions: 424(W) \times 192(H) \times 492(D)mm
(16 $\frac{3}{4}$ \times 7 $\frac{5}{8}$ \times 19 $\frac{3}{8}$ inches)
Weight: 17kg (37 lb 8 oz)

Video signal

Recording and Playback mode:

Conventional mode
Input: 1.0Vp-p \pm 0.3V, 75 Ω , unbalanced
Output: 1.0Vp-p \pm 0.2V, 75 Ω , unbalanced
Horizontal resolution: 250 lines (color)
S/N ratio (colour): Better than 46dB

Audio signal

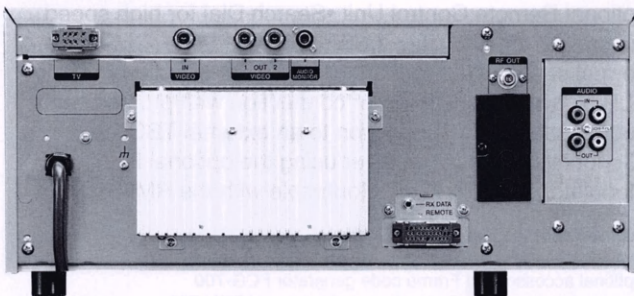
Input: MIC: -60dBu, at 3k Ω load, unbalanced
LINE: -5dBu, at 10k Ω load, balanced
LINE/MONITOR: -10dBu, at 47k Ω load, unbalanced
Output:
Frequency response: 50Hz to 15kHz
Wow and flutter: Less than 0.18% rms
S/N ratio: Better than 50dB (3% distortion)
RF output: With optional RF kit

Tape transport

Tape speed: 9.53cm/s (3.8 ips)
REC or PB time: Max. 60min
Videocassette: KCA-BRS/KCS-BRS/KCA-XBR/KCS-XBR

Technical features

Frame code operation: YES (with BKU-701)
Remote control: YES (33-pin and simple)
Electronic editing: NO
Time code editing: NO
Time code capability: NO
High speed picture search: YES ($\times 5$)
Jog search: NO
Noiseless pause/still: YES
Dolby noise reduction: NO
Audio dubbing: YES (CH-1)
EXT sync lock (vertical): YES
Programmed operation: YES (CTL and frame code counter with BKU-701)
Timer operation: YES (with an optional timer)
RF unit adaptable: YES



VP-7020

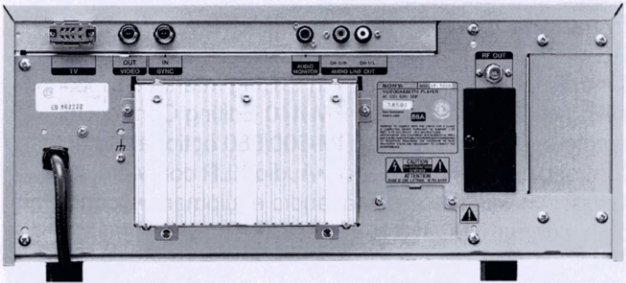
Player

- High quality U-matic picture and sound •BKU-701 Computer Interface Board (RS-232C) (optional) for external computer operation •Frame Code Operation: random access and sophisticated program operation from theRX-707 optional Auto Search Control Unit or an external computer
- Programed operation with MARK IN A and MARK IN B
- 33-pin REMOTE interface for remote operation from the RM-500/580 optional Remote Control Unit •Wired/wireless remote operation via the RM-770 optional Remote Control Unit •Timer operation for playback using an external timer
- High speed picture search at ± 5 times normal speed
- External SYNC input •Connection to a TV receiver using the optional RF Modulator •19-inch Rack Mountable with the RMM-507

- Supplied accessories: Operation manual
RF unit cover
- Optional accessories: 33-pin interface board BKU-702
Computer interface board BKU-701
Frame code generator FCG-700
Auto search control unit RX-707
Remote control unit RM-770
Remote control unit RM-500/580
Color RF kit RFK-634
Rack mount kit RMM-507

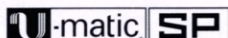
Specifications

General	
Type:	Player
Video signal system:	EIA monochrome/NTSC color
Operating temperature:	5 to 40°C (41 to 104°F)
Power requirements:	AC 100 to 120V 50/60Hz
Operating voltage:	AC 90 to 132V
Power consumption:	58W (with RM-580 and RFK-634)
Dimensions:	424(W) × 192(H) × 492(D)mm (16 ³ / ₄ × 7 ⁵ / ₈ × 19 ³ / ₈ inches)
Weight:	16kg (35 lb 4 oz)
Video signal	
Playback mode:	Conventional mode
Output:	LINE: 1.0Vp-p \pm 0.2V, 75Ω, unbalanced 250 lines (color)
Horizontal resolution:	Better than 45dB
S/N ratio (color):	2.5V (1.0 to 5.0V) p-p, 75Ω, unbalanced, sync negative
EXT sync input:	
Audio signal	
Output:	LINE/MONITOR: -5dBu, at 47kΩ load, unbalanced
Frequency response:	50Hz to 15kHz
Wow and flutter:	Less than 0.18% rms
S/N ratio:	Better than 50dB (3% distortion)
RF output	
Tape transport	
Tape speed:	9.53cm/s (3.8 ips)
PB time:	Max. 60min
Videocassette:	KCA-BRS/KCS-BRS/KCA-XBR/KCS-XBR
Technical features	
Frame code operation:	YES (with BKU-701)
Remote control:	33-pin: YES (with BKU-702), Simple: YES
Electronic editing:	NO
Time code editing:	NO
Time code capability:	NO
High speed picture search:	YES (x5)
Jog search:	NO
Noiseless pause/still:	YES
Dolby noise reduction:	NO
Audio dubbing:	NO
EXT sync lock (vertical):	YES
Programmed operation:	YES (CTL and frame code counter with BKU-701)
Timer operation:	YES (with an optional timer)
RF unit adaptable:	YES



2-2 U-matic editing VTRs

VO-9850



Editing recorder

•Superior Performance (SP) Technology for excellent quality picture through multi-generation recording
•Completely interchangeable with conventional format
•Dolby C-type Noise Reduction System for superior sound quality •BKU-705 Time Code Generator/Reader or BKU-704 Time Code Reader (optional) for accurate time code editing •Built-in Editing Facility allows ASSEMBLE and INSERT editing (VIDEO, AUDIO, CH-1/CH-2) •Dial Menu Operation via search dial for user convenience: setting of time code (with the BKU-705), display of time code character on the monitor screen, setting preroll time, etc. •Shuttle Dial for high speed picture search: STILL, 1/30, 1/10, 1/5, 1/2, 1, 2, 5, 8 times normal speed in the forward and reverse directions •Jog Dial for precise frame by frame picture search •9-pin REMOTE Interface (RS-422A serial): to be interfaced with RM-450 Editing Control Unit •BKU-703A 33-pin Editing Interface (optional): editing operation using the RM-440 Editing Control Unit or remote operation from the RM-500/580 optional Remote Control Unit via this interface •Audio XLR connectors for connection with professional audio equipment •Connection to an external TBC •19-inch Rack Mountable with the RMM-501 Rack Mount Kit

Supplied accessories: AC power cord
Operation manual
Optional accessories: 33-pin editing interface BKU-703A
Time code reader BKU-704
Time code generator/reader BKU-705
Editing control unit RM-450
Rack mount kit RMM-501
9-pin remote cable RCC-5G/10G/30G
Dubbing cable (5m) VDC-5A

Specifications

General

Type: Editing Recorder
Video recording system: Rotary 2 head helical scan
Luminance: FM recording
Chrominance: Converted subcarrier
Video signal system: EIA monochrome/NTSC color
Operating temperature: 5 to 40°C (41 to 104°F)
Power requirements: AC 120V, 50/60Hz
Operating voltage: AC 90 to 132V
Power consumption: 90W (with BKU-703, BKU-704 and RM-440)
Dimensions: 426(W) × 238(H) × 513(D)mm
(16⁷/₈ × 9³/₈ × 20¹/₄ inches)

Weight: 21.4kg (47 lb 2 oz)

Video signal

Recording and playback mode:
Conventional and SP mode
Input: 1.0Vp-p ±0.3V, sync negative 75Ω, unbalanced
Output: 1.0Vp-p ±0.2V, sync negative 75Ω, unbalanced
Horizontal resolution:
SP mode 300 lines (color)
Conventional mode 250 lines (color)
S/N ratio (color):
SP mode Better than 46dB
Conventional mode Better than 46dB
SC input: 1.0V (0.5 to 3.0V) p-p, 75Ω, unbalanced
EXT sync input: 2.5V (1.0 to 5.0V) p-p, negative, 75Ω, unbalanced
RF OUT (OFF TAPE): 0.5V (0.3 to 1.0V) p-p, 75Ω, unbalanced

Audio signal

Input: MIC: -60dBu, 3kΩ, unbalanced
LINE: +4dBu, 10kΩ, balanced
Output: LINE: +4dBu, at 600Ω, balanced
HEADPHONE: -26dBu to -46dBu, at 8Ω, unbalanced
MONITOR: -5dBu at 47kΩ, unbalanced
Frequency response: 50Hz to 15kHz
Wow and flutter: Less than 0.18% rms
S/N ratio:
SP mode (Dolby off) Better than 52dB (3% distortion)
Conventional mode Better than 50dB (3% distortion)

Time code

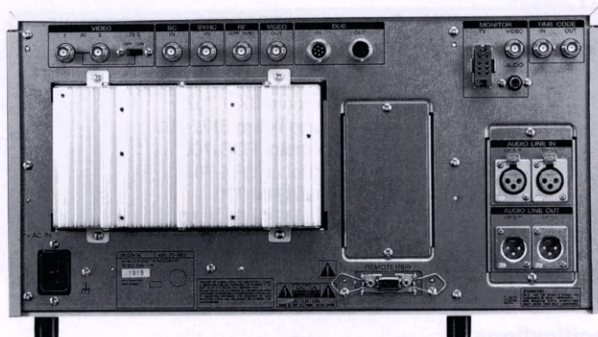
Input: 0dB ±6dB, 10kΩ, unbalanced
(0dB=1.55Vp-p pulse)
Output: 0dB ±3dB, low impedance, unbalanced
(0dB=1.55Vp-p pulse)

Tape transport

Tape speed: 9.53mm/s (3.8 ips)
REC or PB time: Max. 60min
Videocassette: KSP/KSP-S/KCA-BRS/KCS-BRS

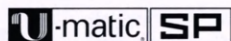
Technical features

Frame code operation: NO
Remote control: YES (9-pin and 33-pin)
Electronic editing: YES
Time code editing: YES (with BKU-704/705)
Time code capability: YES (with BKU-704/705)
High speed picture search:
YES (1/30, 1/10, 1/5, 1/2, 1, 2, 5, 8)
Jog search: YES
Noiseless pause/still: YES
Dolby noise reduction: YES (C-Type)
Audio dubbing: YES (Insert editing CH-1/CH-2)
EXT sync lock (vertical): YES
Programmed operation: YES (CTL counter)
Timer operation: NO
RF unit adaptable: NO



2-2 U-matic editing VTRs

VO-9800



Recorder (Editing player)

- Superior Performance (SP) Technology for excellent quality picture through multi-generation recording
- Completely interchangeable with conventional format
- Dolby C-type Noise Reduction System for superior sound quality
- BKU-704 Time Code Reader (optional) for accurate time code editing
- Back-space Editing Capability for smooth transitions between scenes
- Audio dubbing on CH-1 for additional audio recording on audio CH-1
- Dial Menu Operation via the search dial for user convenience: display of time code character on the monitor screen, setting preroll time, etc.
- Jog/Shuttle Dial for high speed and precise picture search—Jog: frame by frame tape control, Shuttle: Still, 1/30, 1/10, 1/5, 1/2, 1, 2, 5, 8 times normal speed in the forward and reverse directions
- 9-pin REMOTE Interface (RS-422A serial): to be interfaced with RM-450 Editing Control Unit
- BKU-703A 33-pin Editing Interface (optional): editing operation using the RM-440 Editing Control Unit or remote operation from the RM-500/580 optional Remote Control Unit via this interface
- Audio XLR connectors for connection with professional audio equipment
- Connection to an external TBC
- 19-inch Rack Mountable with the RMM-501 Rack Mount Kit

Supplied accessories: AC power cord

Operational manual

Optional accessories: 33-pin editing interface BKU-703A

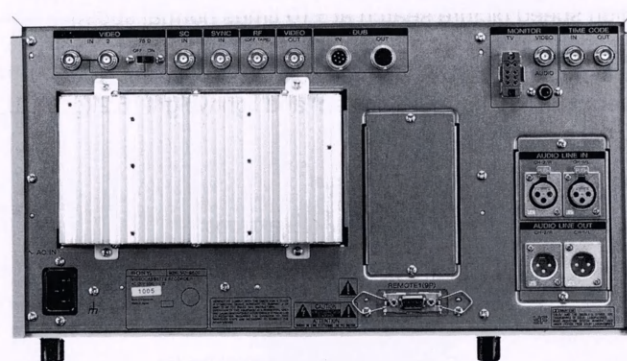
Time code reader BKU-704

Editing control unit RM-450

Rack mount kit RMM-501

9-pin remote cable RCC-5G/10G/30G

Dubbing cable (5m) VDC-5A



Specifications

General

Type: Recorder (Editing player)

Video recording system: Rotary 2 head helical scan

Luminance: FM recording

Chrominance: Converted subcarrier

Video signal system: EIA monochrome/NTSC color

Operating temperature: 5 to 40°C (41 to 104°F)

Power requirements: AC 120V, 50/60Hz

Operating voltage: AC 90 to 132V

Power consumption: 85W (with BKU-703, BKU-704 and RM-440)

Dimensions: 426(W) × 238(H) × 513(D)mm
(16⁷/₈ × 9³/₈ × 20¹/₄ inches)

Weight: 21.4kg (47 lb 2 oz)

Video signal

Recording and playback mode: High band and SP mode

Input: 1.0Vp-p ±0.3V, sync negative, 75Ω, unbalanced

Output: 1.0Vp-p ±0.2V, sync negative, 75Ω, unbalanced

Horizontal resolution: SP mode 300 lines (color)
Conventional mode 250 lines (color)

S/N ratio (color): SP mode Better than 46dB
Conventional mode Better than 46dB

SC input: 1.0V (0.5 to 3.0V) p-p, 75Ω, unbalanced

EXT sync input: 2.5V (1.0 to 5.0V) p-p, negative, 75Ω, unbalanced

RF OUT (OFF TAPE): 0.5V (0.3 to 1.0V) p-p, 75Ω, unbalanced

Audio signal

Input: MIC: -60dBu, 3kΩ, unbalanced
LINE: +4dBu, 10kΩ, balanced

Output: LINE: +4dBu, at 600Ω, balanced
HEADPHONE: -26dBu to -46dBu, at 8Ω, unbalanced
MONITOR: -5dBu at 47kΩ, unbalanced

Frequency response: 50Hz to 15kHz

Wow and flutter: Less than 0.18% rms

S/N ratio: SP mode (Dolby off) Better than 52dB (3% distortion)
Conventional mode Better than 50dB (3% distortion)

Time code

Input: 0dB ±6dB, 10kΩ, unbalanced
(0dB=1.55Vp-p pulse)

Output: 0dB ±3dB, low impedance, unbalanced
(0dB=1.55Vp-p pulse)

Tape transport

Tape speed: 9.53mm/s (3.8 ips)

REC or PB time: Max. 60min

Videocassette: KSP/KSP-S/KCA-BRS/KCS-BRS

Technical features

Frame code operation: NO

Remote control: YES (9-pin and 33-pin)

Electronic editing: YES (Back space editing)

Time code editing: YES (with BKU-704)

Time code capability: YES (with BKU-704)

High speed picture search: YES (1/30, 1/10, 1/5, 1/2, 1, 2, 5, 8)

Jog search: YES

Noiseless pause/still: YES

Dolby noise reduction: YES (C-Type)

Audio dubbing: YES (CH-1)

EXT sync lock (vertical): YES

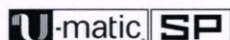
Programmed operation: YES (CTL counter)

Timer operation: NO

RF unit adaptable: NO

2-3 U-matic Portable recorder

VO-8800



U-matic portable recorder

- Ideally suited for news gathering and outdoor recording
- Superior Performance (SP) Technology for excellent quality picture
- Completely interchangeable with conventional format
- Dolby C-type Noise Reduction System for superior sound quality
- BKU-706 Plug-in Time Code Generator (optional) for time code recording
- Y/C separate input (14-pin Camera) to reduce cross color
- Back-space Editing Capability for smooth transitions between scenes
- Video Confidence Playback to verify the recorded pictures simultaneously during recording
- Three ways of warning system: warning on LCD/camera viewfinder and through audible warning alarm
- Simple remote operation by the RM-770 optional Remote Control Unit (Wired only)
- High speed picture search at ± 10 times normal speed
- Headphone jack for audio monitoring
- Audio XLR connectors
- RF OUT: Connected to a TV receiver
- Battery operation: NP-1B $\times 2$
- Compact and lightweight (6.2kg, 13 lb 10 oz)

Supplied accessories: Operation manual
Shoulder strap

Optional accessories: Time code generator BKU-706
Carrying handle AH-8800
Soft carrying case LC-8800
Rechargeable battery NP-1B
Battery charger BC-1WD
Camera adaptor CMA-8A
Cable (CMA-8A \leftrightarrow VO-8800) 3m for
AC adaptor CCQX-3
Remote control unit RM-770

Specifications

General

Type: SP U-matic Portable Recorder
Video recording system: Rotary 4 head helical scan
Luminance: FM recording
Chrominance: Converted subcarrier
Video signal system: EIA monochrome/NTSC color
Operating temperature: 0 to 40°C (32 to 104°F)
Power requirements: DC 12V
Operating voltage: DC 11 to 14V
Power consumption: 18W
Dimensions: 263(W) \times 130(H) \times 354(D)mm
(10 $\frac{3}{8}$ \times 5 $\frac{1}{8}$ \times 14 inches)
Weight: 6.2kg (13 lb 10 oz)

Video signal

Recording and Playback mode:

High band and SP mode
Input: 1.0Vp-p \pm 0.3V, sync negative 75 Ω , unbalanced
Output: 1.0Vp-p \pm 0.2V, sync negative 75 Ω , unbalanced

Horizontal resolution:

SP mode 330 lines (color)
Conventional mode 250 lines (color)

S/N ratio (color):

SP mode Better than 46dB
Conventional mode Better than 46dB

Audio signal

Input: AUDIO IN CH-1/L/DUB, CH-2/R
(XLR 3-pin, female) \times 1 each
+4dBu/-20dBu/-60dBu switchable
+4dBu: more than 10k Ω , balanced
-20dBu/-60dBu: more than 3k Ω , balanced
CAMERA (microphone input) (audio channel 2)
+4dBu/-20dBu/-60dBu switchable
+4dBu: more than 10k Ω , balanced
-20dBu/-60dBu: more than 3k Ω , balanced

Output:

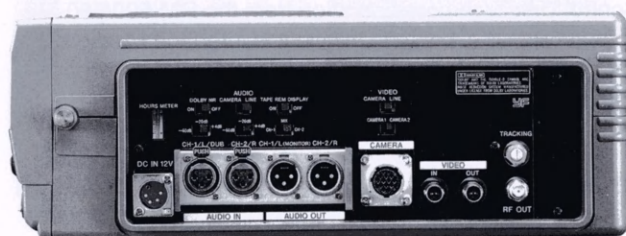
AUDIO OUT CH-1/L (monitor),
CH-2/R (XLR 3-pin, male) \times 1 each
+4dBu, low impedance, balanced
Headphone: -40dBu to -20dBu (at 8 Ω),
unbalanced

Frequency response: 50Hz to 15kHz

Wow and flutter: Less than 0.18% rms

S/N ratio:

SP mode (Dolby off) Better than 46dB (3% distortion)
Conventional mode Better than 46dB (3% distortion)



Time code

Input: 0dB \pm 6dB, 10k Ω , unbalanced
(0dB=1.55Vp-p pulse)

Output: 0dB \pm 3dB, low impedance, unbalanced
(0dB=1.55Vp-p pulse)

RF output

Tape transport

Tape speed: 9.53cm/s (3.8 ips)
REC or PB time: Max. 20min
Videocassette: KSP-S/KCS-BRS

Technical features

Frame code operation: NO
Remote control: YES (simple, wired only)
Electronic editing: YES (Back space editing)
Time code editing: YES (with BKU-706)
Time code capability: YES (with BKU-706)

High speed picture search:

YES (\times 10)

Jog search:

NO

Noiseless pause/still:

YES

Dolby noise reduction:

YES (C-Type)

Audio dubbing:

YES (CH-1)

EXT Sync lock (vertical):

YES

Programmed operation:

NO

Timer operation:

NO

RF unit adaptable:

RF out equipped

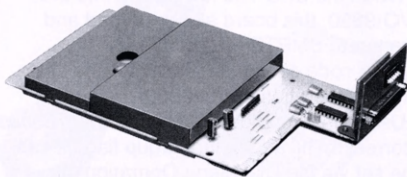
2-4 U-matic VTR accessories

BKU-701

Computer interface board

- Reads the Frame Codes that have been recorded onto the videocassette tape
- Provides an RS-232C interface and allows the VTRs to be controlled from an external computer or the RX-707
- Video/audio signals can be output or muted by setting the BKU-701 dip switches to ON or OFF
- The baud rate can be selected from 1200, 2400, 4800, or 9600 bits per second (bps)

Signal: RS-232C
Connector: D-sub 25-pin
Dimensions: Approx.
125(W) × 52(H) × 223(D)mm
(5 × 2¹/₈ × 8⁷/₈ inches)
Weight: Approx. 260g (9 oz)
Recommended VTR:
VO-7600/9600,
VP-7020/9000
Supplied accessory:
Operation manual



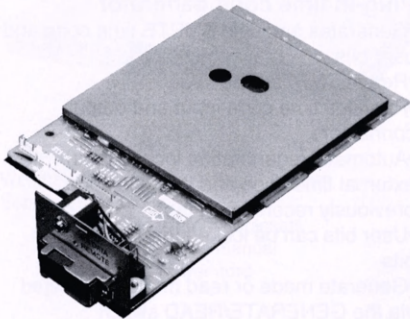
VIDEOCASSETTE
RECORDERS

BKU-702

33-pin interface board

- When the BKU-702 is installed into the VP-7020, the VP-7020 can be controlled remotely by a current 33-pin remote control unit such as the RM-500/580

Dimensions: 125(W) × 52(H) × 223(D)mm
(5 × 2¹/₈ × 8⁷/₈ inches)
Weight: Approx. 260g (9 oz)
Recommended VTR:
VP-7020
Supplied accessory:
Installation manual



BKU-703A

33-pin editing interface

- The BKU-703A 33-pin (parallel) editing interface can be installed into the VO-9850/9800 for connection with the 33-pin remote control units such as the RM-500, RM-580 and RM-555

Dimensions: 63(W) × 109(H) × 64(D)mm
(2¹/₂ × 4³/₈ × 2⁵/₈ inches)
Weight: 230g (8 oz)
Recommended VTR:
VO-9850/VO-9800/EVO-9850
EVO-9800
Supplied accessory:
Installation manual

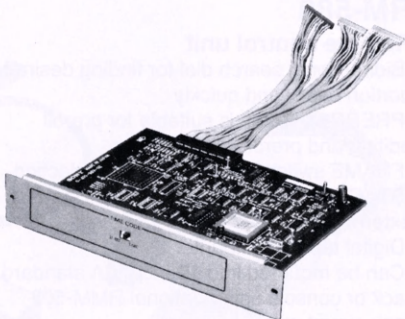


BKU-704

Time code reader

- When the BKU-704 is installed into the VO-9850/9800, this board allows to read SMPTE time codes
- Time code or user bits can be superimposed on the video signal (monitor output) via the Dial Menu Operation of VO-9850/9800
- Easy installation

Time Code: SMPTE
Dimensions: 199(W) × 41(H) × 145(D)mm
(7⁷/₈ × 1⁵/₈ × 5³/₄ inches)
Weight: 190g (7 oz)
Recommended VTR:
VO-9850 and VO-9800
Supplied accessory:
Installation manual



2-4 U-matic VTR accessories

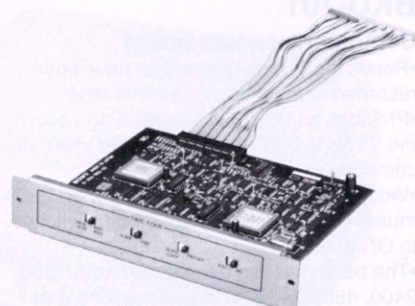
BKU-705

Time code generator/reader

- When the BKU-705 is installed into the VO-9850, this board allows to read and generate SMPTE time codes
- Time code can be set easily via the Dial Menu Operation of VO-9850
- User bits, drop/non-drop frame code, phase correction bit and binary group flag bit can be set via the Dial Menu Operation of VO-9850
- Free-run/rec-run mode can be selected via a switch
- Time code or user bits can be superimposed on the video signal (monitor output) via the Dial Menu Operation of VO-9850

- Regeneration capability to an external time code or the one previously recorded on the tape
- Easy installation

Time Code: SMPTE
 Dimensions: 199(W) × 41(H) × 145(D)mm
 (7⁷/₈ × 1⁵/₈ × 5³/₄ inches)
 Weight: 200g (7 oz)
 Recommended VTR: VO-9850
 Supplied accessory: Installation manual



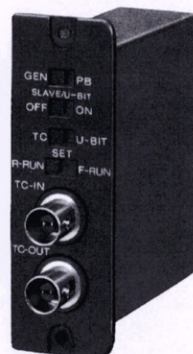
BKU-706

Plug-in time code generator

- Generates and sets SMPTE time code and user bits
- Reads SMPTE time code
- Provides time code input and output connectors
- Automatic regeneration locked to an external time code and the time code previously recorded on tape
- User bits can be locked to external user bits
- Generate mode or read mode is selected via the GENERATE/READ switch
- Free run/Rec run is selectable
- Drop frame/Non-drop frame is selectable

- Time code data is memorized and generated for more than 12 hours after the power is turned off when NP-1B batteries are installed

Time code: SMPTE
 Dimensions: 28(W) × 86(H) × 81(D)mm
 (1¹/₈ × 3¹/₈ × 3¹/₄ inches)
 Weight: 130g (5 oz)
 Recommended VTR: VO-8800
 Supplied accessory: Installation manual



RM-500

Remote control unit

- Basic functions of a VTR can be controlled remotely
- SEARCH buttons for picture search in both forward and reverse directions
- Can be mounted into 19-inch EIA standard rack or console using optional RMM-502 rack mount metal or optional RMM-505 rack mount metal (in case of attaching two RM-500s)

Power requirements: DC 6.8V ± 0.3 V
 (supplied from the VTR)
 Power consumption: 1.2W
 Operating temperature: 0 to 40°C (32 to 104°F)
 Operating position: Any position
 Dimensions: Approx. 212(W) × 87(H) × 38(D)mm
 Approx. (8³/₈ × 3¹/₂ × 1¹/₂ inches)
 Cable length: Approx. 3m (10 ft.)
 with 33-pin connector
 Extendable up to approx. 18m (60 ft.)
 Weight: Approx. 0.9kg (2 lb) incl. cable
 Recommended VTR: VO-7600/9600, VP-7020/9000

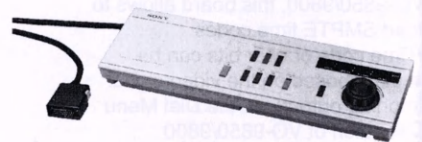


RM-580

Remote control unit

- Bidirectional search dial for finding desired portion easily and quickly
- PREROLL button is suitable for preroll editing and preroll playback
- FRAME switch for 30/25 frames selection
- START SIGN to trigger the preroll start externally
- Digital tape time counter
- Can be mounted into 19-inch EIA standard rack or console using optional RMM-503 rack mount metal

Digital time counter: -9 hours 59min 59s
 29/24 frames to +9 hours 59min 59s 29/24 frames
 Operating temperature: 0 to 40°C (32 to 104°F)
 Operating position: Any position
 Dimensions: Approx. 424(W) × 60(H) × 124(D)mm
 Approx. (16³/₄ × 2³/₈ × 5 inches)
 Cable length: Approx. 3m (10 ft.)
 with 33-pin connector
 Extendable up to approx. 18m (60 ft.)
 Weight: Approx. 2.0kg (4 lb 7 oz) incl. cable
 Recommended VTR: VO-7600/9600, VP-7020/9000



Power requirements: DC 6.8V ± 0.3 V
 (supplied from the VTR)
 Power consumption: 2.0W

2-4 U-matic VTR accessories

RM-770

Remote control unit

- Wireless/wired remote control capability for the VO-8800/7600/9600, VP-7020/9000
- Controls advanced functions such as SEARCH-FWD/SEARCH-REW, in addition to the basic functions of STOP/REC/PAUSE/F FWD/PLAY

Power requirements:

- DC 5V (wireless: supplied from two R6 (AA size) batteries; wired: supplied from the VTR)
- Power consumption: 0.2W

- Connector: Special mini
Dimensions: Approx. 65 (W) × 18 (H) × 150 (D)mm
Approx. (2⁵/₈ × 2³/₃₂ × 6 inches)
Weight: Approx. 105g (4 oz) (excluding batteries)
Recommended VTR: VO-8800/7600/9600 VP-7020/9000
Supplied accessories: Receiver
5m cable
R6 (AA size) battery (2)



FCG-700

Frame code generator

- Generates frame codes sequentially from 000,000 to 299,999 (2 hours 46 minutes)
- Frame Code is inserted into the seventeenth and eighteenth lines of the vertical blanking intervals of the video signal
- Start point can be set from 000,000 to 299,999
- Three start triggers, an external pulse, a cue tone and the manual mode can be set
- The Frame Code and the status of the Frame Code Generator can be superimposed on the picture output from the VIDEO OUT-2 connector while recording
- 19-inch rack mountable

- Power requirements: AC 120V, 50/60Hz
Power consumption: 10W
Video in: BNC, 1.0Vp-p (75Ω on/off selectable)
Video out 1: BNC, 1.0Vp-p (at 75Ω load)
Video out 2: BNC, 1.0Vp-p (at 75Ω load)
Audio in: XLR, +4dBu
Phono, -5dBu
Audio out: XLR, +4dBu
Phono, -5dBu
External pulse in: BNC, TTL level
Dimensions: Approx. 424 (W) × 49 (H) × 256 (D)mm (16³/₄ × 11⁵/₁₆ × 10¹/₈ inches)



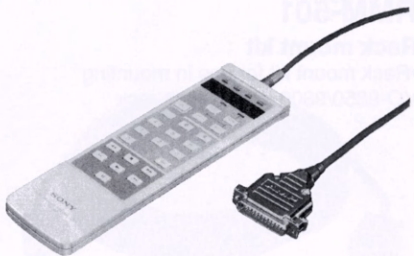
- Weight: Approx. 3.3kg (7 lb 4 oz)
Supplied accessories: Rack mount brackets
Operation manual
AC power cord

RX-707

Auto search control unit

- By setting a frame code number on the control unit, the desired picture can be retrieved easily
- 15 program (PGM) segments can be memorized
- Sequential playback of all of the program segments can be set at one to nine times or for continuous repeat

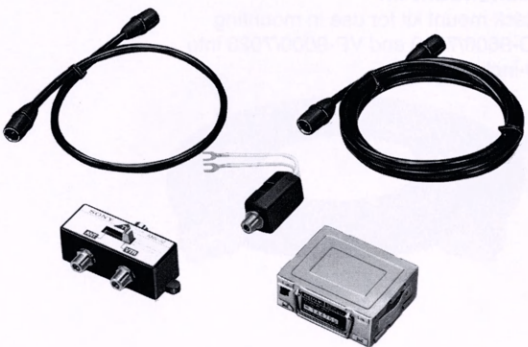
- Dimensions: Approx. 62 (W) × 18 (H) × 215 (D)mm (2¹/₂ × 2³/₃₂ × 8¹/₂ inches)
Cable length: 5m
Weight: Approx. 400g (14 oz)
Supplied accessory: Operation manual



RFK-634

- Plugs into the RF compartment for the VO-7600/9600 and VP-7020/9000

- Channel: American TV standard VHF Ch. 3 & 4 (switchable)
Output: RF signal; less than 75dB, 75Ω
Power requirements: DC 9V, 20mA, supplied from VTR
Dimensions: 69 (W) × 23 (H) × 54 (D)mm (2³/₄ × 2³/₃₂ × 2¹/₄ inches)
Weight: 90g (3 oz), RF unit only
Supplied accessories: 75Ω coaxial cables (0.5m, 1.5m) with F-type connectors
Antenna selector ANS-32
Antenna connector EAC-24



VIDEOCASSETTE RECORDERS

2-4 U-matic VTR accessories

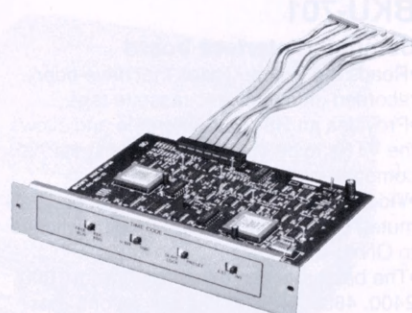
BKU-705

Time code generator/reader

- When the BKU-705 is installed into the VO-9850, this board allows to read and generate SMPTE time codes
- Time code can be set easily via the Dial Menu Operation of VO-9850
- User bits, drop/non-drop frame code, phase correction bit and binary group flag bit can be set via the Dial Menu Operation of VO-9850
- Free-run/rec-run mode can be selected via a switch
- Time code or user bits can be superimposed on the video signal (monitor output) via the Dial Menu Operation of VO-9850

- Regeneration capability to an external time code or the one previously recorded on the tape
- Easy installation

Time Code: SMPTE
 Dimensions: 199(W) × 41(H) × 145(D)mm
 (7⁷/₈ × 1⁵/₈ × 5³/₄ inches)
 Weight: 200g (7 oz)
 Recommended VTR:
 VO-9850
 Supplied accessory:
 Installation manual



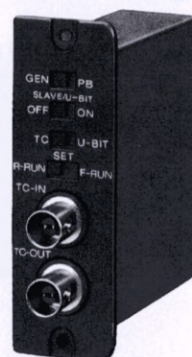
BKU-706

Plug-in time code generator

- Generates and sets SMPTE time code and user bits
- Reads SMPTE time code
- Provides time code input and output connectors
- Automatic regeneration locked to an external time code and the time code previously recorded on tape
- User bits can be locked to external user bits
- Generate mode or read mode is selected via the GENERATE/READ switch
- Free run/Rec run is selectable
- Drop frame/Non-drop frame is selectable

- Time code data is memorized and generated for more than 12 hours after the power is turned off when NP-1B batteries are installed

Time code: SMPTE
 Dimensions: 28(W) × 86(H) × 81(D)mm
 (1¹/₈ × 3¹/₃ × 3¹/₄ inches)
 Weight: 130g (5 oz)
 Recommended VTR:
 VO-8800
 Supplied accessory:
 Installation manual



RM-500

Remote control unit

- Basic functions of a VTR can be controlled remotely
- SEARCH buttons for picture search in both forward and reverse directions
- Can be mounted into 19-inch EIA standard rack or console using optional RMM-502 rack mount metal or optional RMM-505 rack mount metal (in case of attaching two RM-500s)

Power requirements:
 DC 6.8V ±0.3V
 (supplied from the VTR)
 Power consumption:
 1.2W
 Operating temperature:
 0 to 40°C (32 to 104°F)
 Operating position:
 Any position
 Dimensions:
 Approx.
 212(W) × 87(H) × 38(D)mm
 Approx.
 (8³/₈ × 3¹/₂ × 1¹/₂ inches)
 Cable length:
 Approx. 3m (10 ft.)
 with 33-pin connector
 Extendable up to
 approx. 18m (60 ft.)
 Weight:
 Approx. 0.9kg (2 lb) incl. cable
 Recommended VTR:
 VO-7600/9600,
 VP-7020/9000

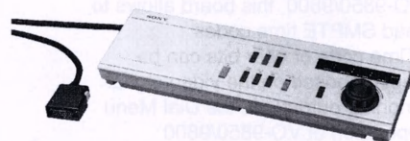


RM-580

Remote control unit

- Bidirectional search dial for finding desired portion easily and quickly
- PREROLL button is suitable for preroll editing and preroll playback
- FRAME switch for 30/25 frames selection
- START SIGN to trigger the preroll start externally
- Digital tape time counter
- Can be mounted into 19-inch EIA standard rack or console using optional RMM-503 rack mount metal

Digital time counter:
 -9 hours 59min 59s
 29/24 frames to +9 hours 59min
 59s 29/24 frames
 Operating temperature:
 0 to 40°C (32 to 104°F)
 Operating position:
 Any position
 Dimensions:
 Approx.
 424(W) × 60(H) × 124(D)mm
 Approx.
 (16³/₄ × 2³/₈ × 5 inches)
 Cable length:
 Approx. 3m (10 ft.)
 with 33-pin connector
 Extendable up to
 approx. 18m (60 ft.)
 Weight:
 Approx.
 2.0kg (4 lb 7 oz) incl. cable
 Recommended VTR:
 VO-7600/9600, VP-7020/9000



Power requirements:
 DC 6.8V ±0.3V
 (supplied from the VTR)
 Power consumption:
 2.0W

2-4 U-matic VTR accessories

RM-770

Remote control unit

- Wireless/wired remote control capability for the VO-8800/7600/9600, VP-7020/9000
- Controls advanced functions such as SEARCH-FWD/SEARCH-REW, in addition to the basic functions of STOP/REC/PAUSE/F FWD/PLAY

Power requirements:

- DC 5V
- (wireless: supplied from two R6 (AA size) batteries; wired: supplied from the VTR)

Power consumption:

0.2W

- Connector: Special mini
Dimensions: Approx. 65 (W) × 18 (H) × 150 (D)mm
(2⁵/₈ × 2³/₃₂ × 6 inches)
Weight: Approx. 105g (4 oz) (excluding batteries)
Recommended VTR: VO-8800/7600/9600
VP-7020/9000
Supplied accessories: Receiver
5m cable
R6 (AA size) battery (2)



FCG-700

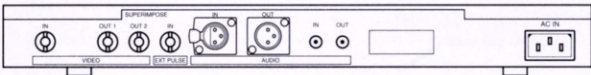
Frame code generator

- Generates frame codes sequentially from 000,000 to 299,999 (2 hours 46 minutes)
- Frame Code is inserted into the seventeenth and eighteenth lines of the vertical blanking intervals of the video signal
- Start point can be set from 000,000 to 299,999
- Three start triggers, an external pulse, a cue tone and the manual mode can be set
- The Frame Code and the status of the Frame Code Generator can be superimposed on the picture output from the VIDEO OUT-2 connector while recording
- 19-inch rack mountable

- Power requirements: AC 120V, 50/60Hz
Power consumption: 10W
Video in: BNC, 1.0Vp-p (75Ω on/off selectable)
Video out 1: BNC, 1.0Vp-p (at 75Ω load)
Video out 2: BNC, 1.0Vp-p (at 75Ω load)
Audio in: XLR, +4dBu
Phono, -5dBu
Audio out: XLR, +4dBu
Phono, -5dBu
External pulse in: BNC, TTL level
Dimensions: Approx. 424 (W) × 49 (H) × 256 (D)mm
(16³/₄ × 11⁵/₁₆ × 10¹/₈ inches)



- Weight: Approx. 3.3kg (7 lb 4 oz)
Supplied accessories: Rack mount brackets
Operation manual
AC power cord

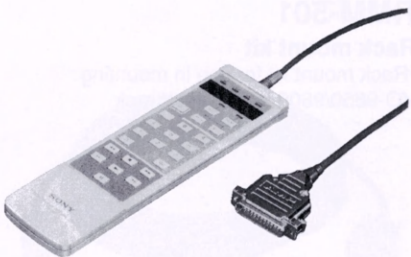


RX-707

Auto search control unit

- By setting a frame code number on the control unit, the desired picture can be retrieved easily
- 15 program (PGM) segments can be memorized
- Sequential playback of all of the program segments can be set at one to nine times or for continuous repeat

- Dimensions: Approx. 62 (W) × 18 (H) × 215 (D)mm
(2¹/₂ × 2³/₃₂ × 8¹/₂ inches)
Cable length: 5m
Weight: Approx. 400g (14 oz)
Supplied accessory: Operation manual



RFK-634

- Plugs into the RF compartment for the VO-7600/9600 and VP-7020/9000

- Channel: American TV standard VHF Ch. 3 & 4 (switchable)
Output: RF signal; less than 75dB, 75Ω
Power requirements: DC 9V, 20mA, supplied from VTR
Dimensions: 69 (W) × 23 (H) × 54 (D)mm
(2³/₄ × 2⁹/₃₂ × 2¹/₄ inches)
Weight: 90g (3 oz), RF unit only
Supplied accessories: 75Ω coaxial cables (0.5m, 1.5m) with F-type connectors
Antenna selector ANS-32
Antenna connector EAC-24

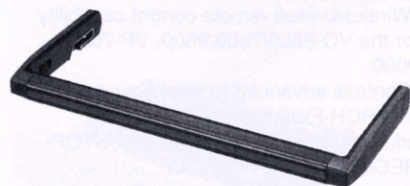


2-4 U-matic VTR accessories

AH-8800

Carrying handle for VO-8800

Weight: 370g (13 oz)



LC-8800

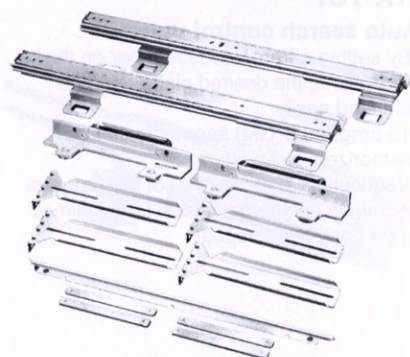
Soft carrying case for VO-8800



RMM-501

Rack mount kit

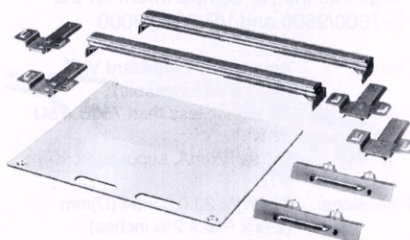
- Rack mount kit for use in mounting VO-9850/9800 into 19-inch rack



RMM-507

Rack mount kit

- Rack mount kit for use in mounting VO-9600/7600 and VP-9000/7020 into 19-inch rack



VDC-5A
Dubbing cable
•7-pin/7-pin, 5m (16.4 ft)



RCC-5F
Remote control cable
•33-pin/33-pin, 5m (16.4 ft)
•RM-500/555/580, RM-440/450↔
All Type-7/9 VTRs



RCC-15FT
Remote control extension cable
•33-pin/33-pin, 15m (49.2 ft)
•RM-500/555/580, RM-440/450↔
All Type-7/9 VTRs



RCC-G cables
Remote control cable
•9-pin/9-pin
•RM-450↔VO-9850/9800, EVO-9850/
9800A, SVO-9600/SVP-9000,
BVU/BVW/BVH series VTR
•RCC-5G: 5m (16 ft)
RCC-10G: 10m (33 ft)
RCC-30G: 30m (98 ft)



VTR accessory combinations

○ Recommendable △ Usable

		VO-9800	VO-9850	VP-9000	VO-9600	VP-7020	VO-7600	VO-8800	BVU series
Remote controller and peripherals	RM-450	○	○						○
	RM-500	△ with BKU-703A	△ with BKU-703A	△	△	△ with BKU-702	△		
	RM-580	△ with BKU-703A	△ with BKU-703A	○	○	○ with BKU-702	○		
	RM-770			○	○	○	○	○	
	RX-707			○ with BKU-701	○ with BKU-701	○ with BKU-701	○ with BKU-701		
	BKU-701			○	○	○	○		
	BKU-702					○			
	BKU-703A	○	○						
	BKU-704	○	△						
	BKU-705		○						
	BKU-706							○	
	FCG-700	△	△	○	○	○	○	△	△
	RF modulator			○	○	○	○		
Others	RMM-501	○	○						○ BVU-900 series only
	RMM-507			○	○	○	○		
	AH-8800							○	
	LC-8800							○	
	VDC-5A	○	○						○

RMM-501

Rack mount kit

Rack mount kit for use in mounting
VO-9800, 9850 and VP-9000 VTRs



RMM-507

Rack mount kit

Rack mount kit for use in mounting
VO-9600, 7600 and VP-7020 VTRs
in 19-inch rack



2-5 U-matic VTR videocassette tapes

KSP series Videocassette tapes

- For the SP U-matic videocassette tape recorder VO-9850/9800/9600
- Can be used with conventional U-matic VTRs
- SP mode recording can be activated via the detection holes on the back of the cassette

Model	Playing time (min)	Tape length m (ft)	Weight* g (lb)
KSP-60	60	358 (1,174)	855 (1 lb 14 oz)
KSP-30	30	186 (610)	745 (1 lb 10 oz)
KSP-20	20	129 (423)	695 (1 lb 9 oz)
KSP-10	10	72 (236)	645 (1 lb 7 oz)

*With case



VIDEOCASSETTE
RECORDERS

KSP-S series Videocassette tapes

- For the SP U-matic videocassette tape recorder VO-9850/9800/9600
- Can be used with the portable U-matic recorder VO-8800, and the conventional U-matic VTRs
- SP mode recording can be activated via the detection holes on the back of the cassette

Model	Playing time (min)	Tape length m (ft)	Weight* g (lb)
KSP-S20	20	129 (423)	525 (1 lb 3 oz)
KSP-S10	10	72 (236)	475 (1 lb 1 oz)

*With case



KCA BRS series Videocassette tapes

- Regular size U-matic videocassette that offers improved video and audio characteristics (with hard case)

Model	Playing time (min)	Tape length m (ft)	Weight* g (lb)
KCA-60BRS	60	358 (1,174)	855 (1 lb 14 oz)
KCA-30BRS	30	186 (610)	745 (1 lb 10 oz)
KCA-20BRS	20	129 (423)	695 (1 lb 9 oz)
KCA-10BRS	10	72 (236)	645 (1 lb 7 oz)
KCA-5BRS	5	43 (141)	630 (1 lb 6 oz)

*With case



KCS BRS series Videocassette tapes

- For Sony U-matic portable videocassette tape recorder VO-8800/4800/6800 series for improved video and audio characteristics
- Can be used with regular U-matic VTRs

Model	Playing time (min)	Tape length m (ft)	Weight* g (lb)
KCS-20BRS	20	192 (423)	525 (1 lb 3 oz)
KCS-10BRS	10	72 (236)	475 (1 lb 1 oz)

*With case

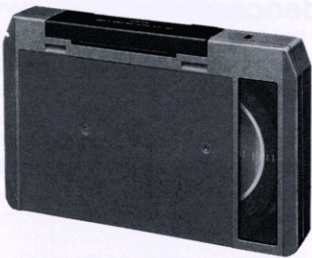


2-5 U-matic VTR videocassette tapes

KSA BRS series Videocassette tapes

- Specially produced to be used in software area for the production of commercially available tapes of copyrighted programs
- Without case and label

Model	Playing time (min)	Tape length m (ft)	Weight g (lb)
KSA-60BRS	60	358 (1,174)	545 (1 lb 3 oz)
KSA-30BRS	30	186 (610)	435 (15 oz)
KSA-20BRS	20	129 (423)	385 (14 oz)
KSA-10BRS	10	72 (236)	335 (12 oz)
KSA-5BRS	5	43 (141)	320 (11 oz)



KCS-1CL

Head cleaning videocassette tape

- For all types of U-matic videocassette tape recorder



EVO-9850 video Hi8

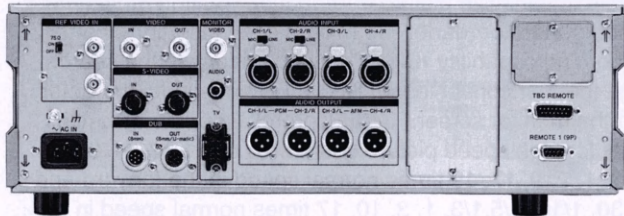
- Hi8 videocassette editing recorder/player**
- Video Hi8 format for excellent picture quality
 - Full editing capability: assemble and insert (Video/PCM-1/PCM-2/Time Code) editing mode
 - Built-in TBC (8-bit, 4fsc)—controlled from the optional remote control unit
 - Digital NR (chrominance and luminance noise reducer)
 - Frame accurate time code based editing capability: 0 frame accuracy
 - Quick response mechanism
 - SMPTE time code IN/OUT interface (optional)
 - Built-in 8mm time code generator/reader
 - PCM digital and AFM stereo audio recording systems
 - JOG/SHUTTLE dial for picture search
 - Dial menu operation
 - 9-pin remote connector (RS-422A)
 - PCM audio monitoring capability in the JOG search mode
 - Sony 33-pin remote interface (BKU-703A: Optional)
 - 8mm DUB IN/OUT (7-pin) connectors
 - U-matic DUB OUT (7-pin) connector—use the 8mm DUB OUT connector in common
 - S-VIDEO IN/OUT connectors
 - 19-inch rack mountable (with RMM-980), 3-unit high

- Supplied accessories: V8-25CLH cleaning videocassette
AC power cord
Operation manual
- Optional accessory: SMPTE time code IN/OUT board EVBK-100
33-pin editing interface BKU-703A
TBC remote control unit BVR-55
Rack mount kit RMM-980
9-pin remote cable RCC-5G/10G/30G
33-pin remote cable RCC-5F
U-matic dubbing cable VDC-5A

Specifications

- General**
- Weight: 14.0kg (31 lb)
Dimensions: 424 (W) × 147 (H) × 452 (D)mm
(16³/₄ × 5⁷/₈ × 17³/₄ inches)
- Power requirements: AC 100 to 120V, 60Hz
Power consumption: 60W
Operating temperature: 5 to 40°C (41 to 104°F)
- Videocassette: Sony E6-HMEX, P6-HMPX
Tape speed: 14.3mm/s
REC and PB time: Approx. 120min (with E6-120/P6-120)
FF/REW time: Approx. 3min (with E6-120/P6-120)
Search speed: SHUTTLE mode: STILL
FORWARD: 1/20, 1/10, 1/5, 1/2, 1, 3, 9, 17 times
normal speed
REVERSE: 1/20, 1/10, 1/5, 1/2, 1, 3, 7, 17 times
normal speed

- Video**
- Video recording system: Two rotary heads and a flying erase head helical scanning FM system
- Video signal system: EIA monochrome/NTSC color
- Input:
- NTSC composite video: BNC connector
1.0Vp-p ±0.3V, 75Ω, unbalanced, sync negative
- Y/C (S VIDEO): Mini DIN 4-pin
Y: 1.0Vp-p ±0.3V, 75Ω, unbalanced, sync negative
C: 0.286Vp-p, at burst level, 75Ω, unbalanced
- 8mm DUB IN: 7-pin connector
REF IN: Loop-through BNC connector
- Output:
- NTSC composite: BNC connector
1.0Vp-p ±0.2V, 75Ω, unbalanced, sync negative
- Y/C (S VIDEO): Mini DIN 4-pin
Y: 1.0Vp-p (0.2V, 75Ω)
C: 0.286Vp-p, at burst level, 75Ω, unbalanced
- 8mm/U-matic DUB OUT: 7-pin connector
TV OUT: 8-pin connector
- Horizontal resolution: Hi8 mode (HME): 400TV lines
S/N ratio: Hi8 mode: better than 45dB
REMOTE: RS-422A × 1 (9-pin)
TBC REMOTE × 1 (D-sub 15-pin)



- Audio**
- Input: Line: +4dBu, 600Ω, balanced
Mic: -60dBu, 3kΩ, balanced
- Output: Line: +4dBu (at 600Ω) balanced
Headphones: -26dBu to -50dBu (at 8Ω), unbalanced
- Frequency response: PCM: 20Hz to 15kHz
Dynamic range: PCM: better than 80dB

EVO-9800A

video Hi8

Video Hi8 recorder/player

•Video Hi8 format for improved picture quality: 400TV lines •Video Hi8 and Standard 8mm format recording/playback capability •Video Hi8 tape for Hi8 recording and high picture quality •Built-in Digital Chrominance Noise Reducer (Digital CNR) for improving chrominance S/N ratio and providing minimum jitter •PCM (Pulse Code Modulation) digital stereo and AFM (Audio Frequency Modulation) recording systems •S VIDEO IN/OUT connectors •U-matic DUB OUT connector for direct connection to the U-matic VTR via the VDC-5A dubbing cable to minimize picture degradation •Built-in 8mm time code generator/reader •8mm time code insertion or after recording capability •Dial Menu Operation via the search dial for user convenience: Display of time code character on the monitor screen, Setting preroll time, etc. •Shuttle Dial for high speed picture search: STILL, 1/30, 1/10, 1/5, 1/3, 1, 2, 9, 17, 19 times normal speed in the forward and 1/30, 1/10, 1/5, 1/3, 1, 3, 10, 17 times normal speed in the reverse direction •Jog Dial for precise frame by frame picture search •9-pin REMOTE interface for connection with RM-450 Editing Control Unit •BKU-703A 33-pin Editing Interface (optional) for editing operation with the RM-440 •Audio XLR connectors •Compact size and 19-inch rack mountable: with RMM-980 Rack Mount Kit (3 Unit)

Supplied accessories: AC power cord

Operation manual

Optional accessories: 33-pin editing interface BKU-703A

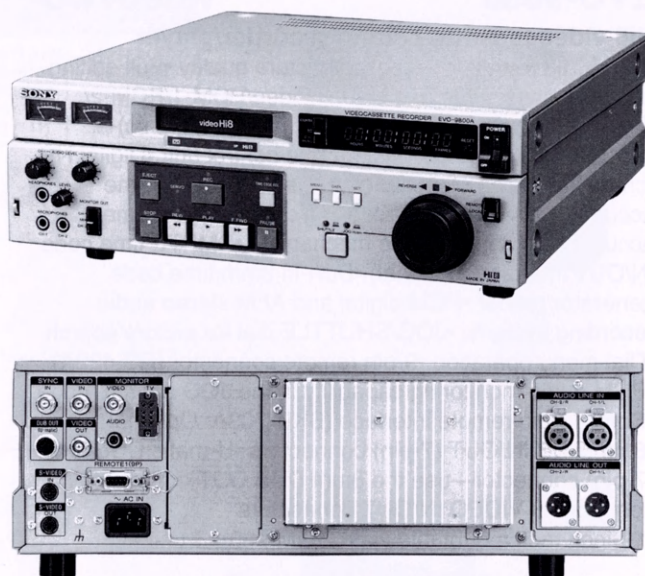
Editing control unit RM-450

Rack mount kit RMM-980

9-pin remote cable RCC-5G/10G/30G

33-pin remote cable RCC-5F

U-matic dubbing cable VDC-5A



Specifications

General

Weight: 14.0kg (30 lb 14 oz)

Dimensions: 424 (W) × 147 (H) × 452 (D)mm
(16³/₄ × 5⁷/₈ × 17³/₄ inches)

Power requirements: AC 100 to 120V, 50/60Hz

Power consumption: 44W

Operating temperature: 5 to 40°C (41 to 104°F)

Videocassette: Sony E6-HMEX, P6-HMPX videocassette

Tape speed: 14.3mm/s

REC or PB time: 120min with E6-120/P6-120 tape

Recording and playback format:

Video Hi8 and Standard 8mm format

Video

Video recording system: Two rotary heads and a flying erase head helical scanning FM system

Video signal system: EIA monochrome/NTSC color

Input: 1.0Vp-p, sync negative, 75Ω, unbalanced
S connector (Mini DIN 4-pin):

Y: 1.0Vp-p ±0.1V, 75Ω, unbalanced, sync negative

C: 0.286Vp-p, at burst level, 75Ω, unbalanced

Output: 1.0Vp-p, sync negative, 75Ω, unbalanced
S connector (Mini DIN 4-pin):

Y: 1.0Vp-p ±0.1V, 75Ω, unbalanced, sync negative

C: 0.286Vp-p, at burst level, 75Ω, unbalanced

Horizontal resolution: Video Hi8 mode: 400TV lines

S/N ratio: Video Hi8 mode: better than 45dB

Audio

Input: LINE: CH-1/CH-2 (XLR 3-pin, female): +4dBu, 10kΩ, balanced

Microphone: -60dBu, 3kΩ, unbalanced

Output: LINE: CH-1/CH-2 (XLR 3-pin, male): +4dBu, (at 600Ω), balanced

Head phones: -26dBu to 46dBu (at 8Ω), unbalanced

Frequency response: PCM: 20Hz to 15kHz

Dynamic range: PCM: better than 80dB

EVO-9720

video Hi8

Video Hi8 desk-top editing machine

•Compact configuration: a player and a recorder integrated in a compact unit •Easy operation with the supplied RM-E9720 editing control unit •Video Hi8 format for improved picture quality: 400TV lines horizontally •Superior quality editing thanks to Y/C separate signal processing from a player to a recorder •Equipped with the RS-232C ports for both a player and a recorder to be controlled with an external equipment •External sync inputs •GPI OUT terminal with timing adjustment function •8mm time code generator/reader and RC (Re-writable Consumer) time code read capability •8mm time code insertion and after recording capability •Can be used as two feeders when connected with the FXE-100 video editing system •Digital noise reducer for both luminance and chrominance for superior editing picture quality •Digital Drop Out Compensator (DOC) for a player and improved line DOC for a recorder •PCM (Pulse Code Modulation) digital stereo and AFM (Audio Frequency Modulation) stereo recording systems •Various editing functions: Quick Edit, Program Edit, Video Insertion, PCM Audio Insertion, Slow Motion Edit, Freeze Picture Edit, Black and White Fader •Audio signal flow indicator for comprehensive sound flow •PCM/AFM audio mix ratio volume •On-Screen Menu operation for simple mode settings •Background color generator •Hours meter •One monitor editing capability by picture-in-picture function •PREVIEW and REVIEW function

Supplied accessories: Editing controller RM-E9720
AV cable VMC-701M
AC cable
Plug adaptor (BNC to PIN)(x2)
Cleaning cassette
Operation manual
Quick Edit Reference Card
RS-232C Interface Manual

Optional accessories and peripheral equipment:
Hi8 videocassette P6-30/60/120 HMPX
1-CCD Hi8 camcorder EVO-150TR
3-CCD Hi8 camcorder EVW-300
Hi8 editing recorder EVO-9850
Video editing system FXE-100
13-inch color video monitor
PVM-1344Q/1341/1340

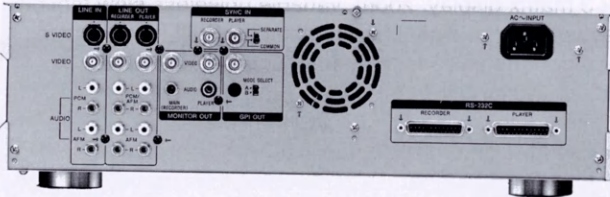
Specifications

General

Weight: Approx. 10.5kg (23 lb 2 oz)
Dimensions: 426(W) × 134.5(D) × 405(H)mm
(16 7/8 × 5 3/8 × 16 inches)
Power requirements: AC 100 to 120V, 50/60Hz
Power consumption: 52W
Operating temperature: 5 to 40°C (41 to 104°F)
Storage temperature: -20 to 60°C (-4 to 140°F)

Tape Transport

Video cassette: Sony P6-HMPX, P6-HMP, P6MP series or equivalent
Tape speed: SP: 1.43 cm/s (REC/PLAY)
LP: 0.72 cm/s (PLAY)
REC or PB time: REC: Max. 2 hours (P6-120 in SP mode)
PLAY: Max. 2 hours (P6-120)
FF/ REW time: FF: 3 min (P6-120)
REW: 3 min (P6-120)
Search speed: FWD: STILL, 1/30, 1/5, 1, 2, 9, 19 times normal speed
REVERSE: 1/30, 1/5, 1, 3, 7, 17 times normal speed



RM-E9720
(Supplied)

Video

Color system: EIA standard / NTSC color
Video recording system: Rotary two-head helical scanning FM system
Horizontal resolution: Hi8: 400TV lines
SP: 240TV lines
S/N ratio: 45dB (Hi8)
Input(Recorder)
Composite: BNC connector
1Vp-p, 75Ω, unbalanced, sync negative
Y/C (S Video): Mini DIN 4 pin connector
Y (Luminance): 1Vp-p, 75Ω, unbalanced, sync negative
C (Chrominance): 286mVp-p, 75Ω, unbalanced
Output(Recorder/Player)
Composite: BNC connector (x2)
1Vp-p, 75Ω, unbalanced, sync negative
Y/C (S Video): Mini DIN 4-pin connector (x2)
Y (Luminance): 1Vp-p, 75Ω, unbalanced, sync negative
C (Chrominance): 286mVp-p, 75Ω, unbalanced

Audio

Recording system: Rotary head, PCM-2 channel and FM 1-channel system
Frequency response: AFM: 30Hz to 15kHz
PCM: 20Hz to 15kHz
Dynamic range: AFM: Better than 60 dB
PCM: Better than 85 dB
Input(RECORDER) Phono connector (AFM × 2, PCM × 2, stereo)
-7.5dBu input impedance more than 47kΩ
Output (RECORDER/ PLAYER)
AFM: Phono connector, stereo (x2)
PCM: Phono connector, stereo (x2)
-7.5dBu at load impedance 47kΩ, Output impedance less than 2.2kΩ

Monitor out (Recorder/ Player)

Composite video: BNC connector (x2)
1Vp-p, 75Ω, unbalanced, sync negative
AUDIO: Phono connector, Monaural (x2)
-7.5dBu 47kΩ

Others

RS-232C: Player: D-sub 25-pin (female)
Recorder: D-sub 25-pin (female)
GPI OUT: BNC connector
Mini-jack
EXTERNAL SYNC IN: PLAYER: BNC connector, 1Vp-p, 75Ω
RECORDER: BNC connector, 1Vp-p, 75Ω
8-pin DIN (Original)
CONTROLLER: Head phone: Stereo standard jack, -29dBu, 8Ω
Microphone: Mic jack (monaural), -60dBu 4.3kΩ

EVO-9650

video Hi8

Video Hi8 recorder/player for single frame recording

•Single frame recording capability: ± 0 frame accuracy
 •Sony Institutional RS-232C interface for computer control applications
 •Video Hi8 format for excellent picture quality: 400TV line resolution
 •Insert capability: Video/PCM audio/Time Code
 •Built-in frame buffer for high quality computer graphics recording
 •Digital NR (chrominance and luminance noise reducer) for high quality playback picture
 •Digital special effects: frame/field still (selectable), 3×3 matrix display, zoom, variable noiseless slow motion playback by the digital frame memory
 •Built-in 8mm time code generator/reader
 •Preset Menu for VTR mode setting: Digital CNR/YNR level, Time code display position, Still timer, etc.
 •JOG/SHUTTLE dial for quick and precise tape control: with supplied wired remote commander RM-9650
 •PCM digital stereo and AFM monaural audio recording systems
 •S-VIDEO IN/OUT connectors—4-pin DIN
 •Supplied wired remote commander RM-9650

Supplied accessories: Wired remote control unit RM-9650
 Cleaning cassette
 Operation manual
 Interface manual for programmers
 Quick reference—RS-232C commands

Optional accessories: RGB Encoder Board EVBK-65
 VISCA interface board EVBK-66

Specifications

General

Weight: 8.0kg (17 lb 10 oz)
 Dimensions: 355 (W) \times 116 (H) \times 387 (D)mm
 (14 \times 4 $\frac{5}{8}$ \times 15 $\frac{1}{4}$ inches)
 Power requirements: AC 100 to 120V, 60Hz
 Power consumption: 32W
 Operating temperature: 5 to 40°C (41 to 104°F)
 Storage temperature: -20 to 60°C (-4 to 140°F)
 Videocassette: Sony P6-HMPX, P6-MP series
 Tape speed: 14.3mm/s
 REC and PB time: 120min (with P6-120)
 FF/REW time: Less than 3min (with P6-90)
 Search speed: SHUTTLE mode: STILL
 FORWARD: 1/30, 1/10, 1/5, 1/3, 1, 2, 9, 19 times
 normal speeds
 REVERSE: 1/30, 1/10, 1/5, 1/3, 1, 3, 7, 17 times
 normal speeds
 Recording mode: Hi8, standard 8mm
 Playback mode: Auto detect

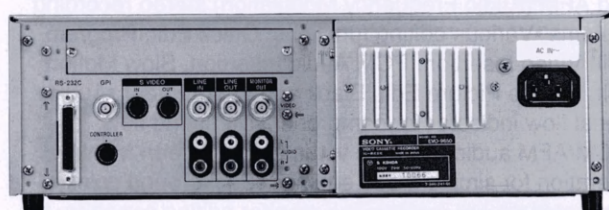
Video

Color system: EIA monochrome/NTSC color
 Video recording system: Rotary 2 head helical scan system
 Horizontal resolution: Hi8 mode: 400TV lines
 S/N ratio: Hi8 mode: better than 45dB
 Input:
 Composite video: BNC connector
 1.0Vp-p, 75 Ω , sync negative
 Y/C (S-VIDEO): Mini DIN 4-pin connector
 Y: 1.0Vp-p, 75 Ω , sync negative
 C: 0.286Vp-p, at burst level, 75 Ω , sync negative
 Output:
 Composite video: BNC connector
 1.0Vp-p, 75 Ω , sync negative
 Y/C (S-VIDEO): Mini DIN 4-pin connector
 Y: 1.0Vp-p, 75 Ω , sync negative
 C: 0.286Vp-p, at burst level, 75 Ω , sync negative
 Monitor output: Composite video: BNC connector
 1.0Vp-p, 75 Ω , sync negative
 BNC connector
 GPI: RS-232C (D-sub 25-pin)
 Remote:

Audio

Input:
 Phono jack (stereo)
 -7.5dBu, 47k Ω , unbalanced
 Mic: -60dBu, 4.3k Ω , unbalanced
 Output:
 Phono jack (stereo)
 -7.5dBu, 2.2k Ω , unbalanced
 Headphones: Mini jack (stereo)
 -26dBu to -46dBu (at 8 Ω), unbalanced
 Monitor out: Phono jack (stereo)
 -7.5dBu, 2.2k Ω , unbalanced
 Frequency response: PCM: 20Hz to 15kHz
 Dynamic range: PCM: better than 85dB

RM-9650
 (Supplied)



EVO-9500A

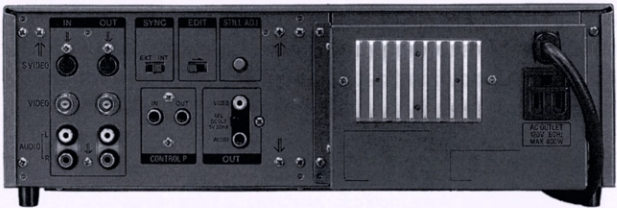
videoHi8

Video Hi8 recorder/player

- Video Hi8 format for improved picture quality: over 400TV lines
- Video Hi8 and Standard 8mm format recording/playback capability
- Video Hi8 tape for Hi8 recording and high picture quality
- PCM (Pulse Code Modulation) digital stereo and AFM (Audio Frequency Modulation) recording systems
- Auto repeat function
- Clear still and slow motion pictures thanks to Dual Azimuth 4-head design
- Control P terminals for multiple VTR operation
- Additional audio recording on the PCM sound track
- Built-in 8mm time code capability: 8mm time code generator/reader, time code insertion/overwrite capability
- Wireless and wired remote control using optional remote control unit
- Timer REC or PLAY operation from an external AC timer
- S Video IN/OUT connectors (Mini DIN 4-pin) to reduce cross color and dot interference

Supplied accessories: Cleaning videocassette V8-25CLH
Operation manual

Optional accessories: Wired/wireless remote control unit RM-S52A



VIDEOCASSETTE
RECORDERS

Specifications

General

- Weight: 6.5kg (14 lb 5 oz)
Dimensions: 355 (W) × 116 (H) × 387 (D)mm
(14 × 4⁵/₈ × 15¹/₄ inches)
Power requirements: AC 100 to 120V, 50/60Hz
Power consumption: 25W
Operating temperature: 5 to 40°C (41 to 104°F)
Videocassette: Sony E6-HMEX, P6-HMPX videocassette
Tape speed: 14.3mm/s
REC or PB time: 120min with E6-120 tape
Recording and playback format: Video Hi8 and Standard 8mm format

Video

- Video recording system: Two rotary heads and a flying erase head helical scanning FM system
Video signal system: EIA monochrome/NTSC color
Input
Composite: BNC connector
1.0Vp-p, sync negative, 75Ω,
Y/C (S-VIDEO): Mini DIN 4-pin connector
Y: 1.0Vp-p ±0.1V, 75Ω, unbalanced, sync negative
C: 0.286Vp-p, at burst level, 75Ω, unbalanced
Output
Composite: BNC connector
1.0Vp-p, sync negative, 75Ω,
Y/C (S-VIDEO): Mini DIN 4-pin connector
Y: 1.0Vp-p ±0.1V, 75Ω, unbalanced, sync negative
C: 0.286Vp-p, at burst level, 75Ω, unbalanced
Horizontal resolution: Video Hi8 mode: 400TV lines
S/N ratio: Video Hi8 mode: better than 45dB

Audio

- Input: Microphone: -60dBu, 3kΩ, unbalanced
Phono: -7.5dBu, 47kΩ, unbalanced
Output: Phono: -7.5dBu, 22kΩ, unbalanced
Frequency response: 20Hz to 15kHz
Dynamic range: PCM: better than 85dB

EVV-9000

video Hi8

Video Hi8 recorder unit

- Compact and lightweight camcorder by connecting to Sony DXC-327A/537/537A 3-CCD color video camera
- Video Hi8 format for improved picture quality: 400TV lines
- Video Hi8 and Standard 8mm format recording/playback capability
- Video Hi8 tape for Hi8 recording and high picture quality
- Y/C separate input via 50-pin DIN to reduce cross colour
- PCM (Pulse Code Modulation) digital stereo and AFM (Audio Frequency Modulation) recording systems
- XLR balanced audio connectors for stable signal transmission
- MIC/LINE input selectable
- Built-in 8mm time code generator
- Warning indications for reliable operation
- REC REVIEW function convenient for confirmation of recording
- Low power consumption of 7.5W
- LCD window: indication of time code, warnings, etc.
- Built-in earspeaker for audio monitoring
- RF out

Supplied accessories: Shoulder strap
Guide for attaching shoulder strap
Metal mount for attaching shoulder strap
V8-25CLH cleaning cassette
Operation manual

Optional accessories: 3-chip CCD color video camera DXC-327A/537/537A
VTR adaptor VA-90
Rechargeable battery NP-1B
Battery charger BC-1WD
Camera adaptor CMA-8A
AC power cable CCQX-3

Specifications

General

Weight: 1.8kg (4 lb)
Dimensions: 115 (W) × 243 (H) × 189 (D)mm
(4 5/8 × 9 5/8 × 7 1/2 inches)
Power requirements: DC 12V
Power consumption: 7.5W
Operating temperature: 0 to 40°C (32 to 104°F)
Videocassette: Sony E6-HMEX, P6-HMPX videocassette
Tape speed: 14.3mm/s
REC or PB time: 120min with E6-120 tape
Recording and playback format: Video Hi8 and Standard 8mm format

Video

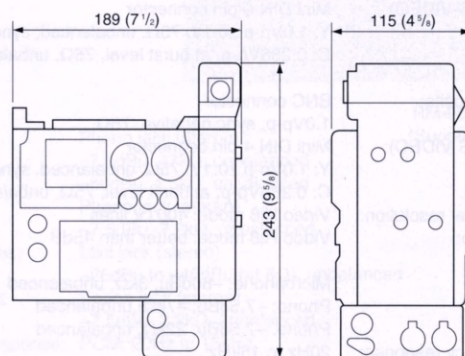
Video recording system: Two rotary heads and a flying erase head helical scanning FM system
Video signal system: EIA monochrome/NTSC color
Input: Y: 1.0Vp-p ±0.1V, 75Ω, unbalanced, sync negative
C: 0.286Vp-p, at burst level, 75Ω, unbalanced
Output: 1.0Vp-p, sync negative, 75Ω, unbalanced
Horizontal resolution: Video Hi8 mode: 400TV lines
S/N ratio: Video Hi8 mode: 44dB

Audio

Input: Microphone: -60dBu, 3kΩ, balanced
LINE: +4dBu, 10kΩ, balanced
Output: Phono: -10dBu, 47kΩ, unbalanced
Frequency response: 20Hz to 15kHz
Dynamic range: PCM: better than 80dB



Dimensions



Unit: mm (inch)

3-2 Hi8 VTR accessories

BVR-55

TBC remote controller for the EVO-9850P

- Can remotely control the adjustments of VIDEO, CHROMA, SET UP, HUE, SYNC PHASE, SC PHASE, NOISE REDUCTION and FREEZE
- 19-inch rack mountable with a supplied blank panel or another BVR-55

Power requirements:	DC 12V (supplied from the VTR)
Power consumption:	600mW
Operating temperature:	0 to 40°C (32 to 104°F)
Storage temperature:	-20 to 60°C (-4 to 140°F)
Weight:	850g (1 lb 14 oz)
Dimensions:	212 × 43.6 × 110mm (8 ³ / ₈ × 1 ³ / ₄ × 4 ³ / ₈ inches)
Supplied accessories:	Remote control cable (5m) Rack mount bracket (2) Screws (8)



VA-90

VTR adaptor for the EVV-9000

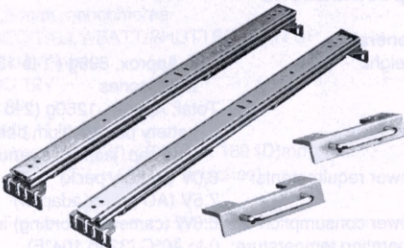
- Can be directly attached to the EVV-9000 video Hi8 recorder to be operated as a portable VTR
- CCQ type (14-pin) connector for high quality video/audio recording
- S-VIDEO IN for high quality video recording
- Digital Y/C separator to achieve high quality video recording for composite video signals
- Audio input level selectable -20dB/-60dB



RMM-980

Rack mount kit for the EVO-9800A/9850

- Rack mount kit for use in mounting EVO-9800A and EVO-9850 into 19-inch rack



VIDEOCASSETTE
RECORDERS

3-3 Hi8 camcorders

EVO-150TR

video Hi8

Video Hi8 1-CCD camcorder

- Extremely compact and lightweight for one hand operation: main body 890g (1 lb 15 oz), 1,250g (2 lb 12 oz) when fully equipped
- Video Hi8 format for excellent picture quality
- SteadyShot function for stable picture recording
- 0.7-inch Color LCD (Liquid Crystal Device) Viewfinder with 103,000 pixels (effective)
- AFM Hi-Fi stereo audio
- Stereo zoom mic
- 10 Times zoom with variable speed control
- Mach start enables immediate recording in the field: 0.2 seconds from the STANDBY mode
- Built-in RC (Re-writable consumer) time code generator
- Data Code function automatically records the recording date and time on the time code track
- Full automatic adjustment control for focus, white balance, and exposure
- Variable speed electronic shutter
- Edit search and REC review function for easy picture confirmation
- LANC (Local Application Control Bus system) connector
- World Date/ Time
- Black/ mosaic fader
- Title insert capability: scroll, invert, see-through mode
- Wireless remote control capability with a supplied remote commander



RMT-508

Supplied accessories: Wireless remote commander RMT-508

AV connecting cable (RCA pin)
S VIDEO connecting cable (Mini DIN 4-pin)
RF adaptor RFU-90UC
Battery pack NP-77H (2)
AC adaptor AC-S10
Shoulder strap
Wide conversion lens VCL-0752H

Optional accessories: Battery pack NP-60/60D/80D
DC pack DCP-77
DC adaptor/ charger DC-S10
Video Hi8 videocassette P6-30/60/120 HMPX
8mm videocassette P6-15/30/60/90/120 MP

Specifications

General

Weight: Net: Approx. 890g (1 lb 15 oz); without accessories
Total: Approx. 1250g (2 lb 12 oz); with NP-77H battery pack, lithium battery, Hi8 cassette, lens cap, jack cover and shoulder strap

Power requirements: 6.0V (Battery pack)
7.5V (AC power adaptor)

Power consumption: 6.6W (camera recording) including the viewfinder

Operating temperature: 0 to 40°C (32 to 104°F)

Storage temperature: -20 to 60°C (-4 to 140°F)

Video cassette: 8mm or Hi8 Cassette Tape (ex. P6-HMPX, P6-MP)

Tape speed: SP mode: 1.43cm/sec (Rec mode)
LP mode: 0.72cm/sec (playback only)

Recording time: SP mode: 2 hours (P6-120)

Playback time: SP mode: 2 hours (P6-120)
LP mode: 4 hours (P6-120)

FF/ REW time: Approx. 8 min. (P6-120)

Camera

Image device: One 1/3-inch CCD, 410,000 pixels (Effective: 380,000 pixels)

Viewfinder: 0.7-inch LCD color viewfinder (103,000 pixels)

Lens: 10 times zoom (f=6.2 to 62mm, F1.6 to 2.9)
Filter diameter: 52mm (2 1/8 inches)

Auto focus system: TTL autofocus system inner focus wide macro system

Color temperature: Auto, HOLD, Preset (Indoor: 3200K, Outdoor: 5800K)

Minimum illumination: 3 lx (at F1.6)

Illumination range: 3 lx to 100,000 lx

Recommended illumination: More than 100 lx

Shutter speed selection: 1/60, 1/100, 1/250, 1/1000, 1/2000, 1/4000, 1/10000 (s)

Video

Video signal: EIA standard, NTSC color

Video recording system: Four rotary heads helical scanning FM system

Recording mode: Hi8, standard 8mm

Playback mode: SP/ LP Auto detect

Horizontal resolution: Hi8 mode: More than 400TV lines
Standard mode: 240TV lines

S VIDEO IN/OUT*: Y(luminance): 1Vp-p, 75Ω, unbalanced, sync negative
C(chrominance): 0.286Vp-p, 75Ω, unbalanced, sync negative

VIDEO IN/OUT*: 1Vp-p, 75Ω, unbalanced, sync negative

RFU DC OUT: DC 5V

REMOTE: LANC

S/N ratio: 44 dB

Time code: RC time code (Write only)

Audio

AFM audio: Stereo

Audio IN/ OUT*: Input: -7.5dBu
Input impedance more than 47kΩ
Output: Output level: -7.5dBu (Load impedance 47kΩ)
Output impedance: Less than 2.2kΩ

MIC: -66dBu low impedance with DC 2.5 to 3V, output impedance 6.8kΩ

*Selectable with the video/ audio INPUT/OUTPUT selector

Connectors

S VIDEO input/ output: Mini DIN 4-pin connector × 1

VIDEO input/output: Phono jack × 1

AUDIO input/output: Phono jack × 2 (stereo L and R)

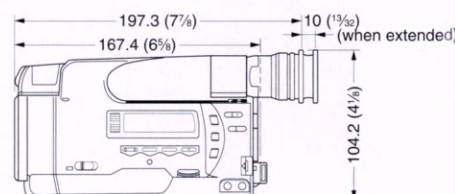
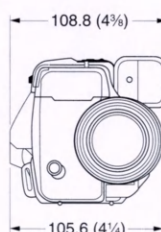
RFU DC OUT: Special mini-jack

Headphone: Stereo mini-jack (ø3.5)

Remote: Stereo mini-mini jack (ø2.5)

MIC: Stereo mini-jack (ø3.5)

Dimensions



Unit: mm (inch)

EVW-300

video Hi8

Video Hi8 3-CCD one-piece camcorder

•Complete one-piece Hi8 camcorder •Compact and light weight: 5.6kg (12 lb 5 oz) including VF/lens/battery videocassette •Video Hi8 format for high quality pictures •PCM (Pulse Code Modulation) digital stereo and AFM (Audio Frequency Modulation) recording systems •High S/N ratio: 58dB (camera head) •High sensitivity: F8.0 at 2000 lx •High resolution: 700TV lines (camera portion) •Programmable gain up (0 to 18dB) •ATW (Auto Tracing White Balance) •Total Level Control System provides optimum adjutants for any lighting conditions: AGC (Automatic Gain Control), CCD AE (Auto Exposure) and Intelligent Auto Iris •Safety zone and Center Marker indication in the view finder •Two memories for white balance value •×13 zoom lens: VCL-713BX (supplied with the EVW-300K) •1/2 -inch bayonet mount •Variable speed electronic shutter •Clear Scan function (50 to 200Hz) •Camera gen-lock capability •Built-in 8mm time code: REGEN/PRESET, REC-RUN/FREE-RUN, USER BIT •Quick-start recording (less than 0.5s from REC PAUSE to REC) •EDIT SEARCH function •Long operation time: more than 90min with a single NP-1B battery •Low power consumption: 14.9W (REC mode)



Specifications

General

Weight (including NP battery, VF, zoom lens, Hi8 videocassette):

Power requirements:	DC 12V
Power consumption:	14.9W (REC mode)
Operating temperature :	0 to 40°C (32 to 104°F)
Storage temperature:	-20 to 60°C (-4 to 140°F)
Videocassette:	Sony E6-HMEX, P6-HMPX series or equivalent
Tape speed:	14.3mm/s
Continuous operation time:	Approx. 120min with an NP-1B
REC/ PB time:	Approx. 120min (with P6-120)

Camera portion

Image device:	1/2-inch Interline-Transfer CCD
Optics:	F1.4 medium index prism system
Picture elements:	752 × 582 (H/V)
Sensing area:	6.4mm × 4.8mm
Built-in filters:	1: 3200K, 2: 5600K +1/16 ND 3: 5600K
Lens mount:	1/2-inch bayonet mount
Signal system:	EIA standards (monochrome), NTSC (color)
Scanning system:	2:1 interlaced, 525 lines
Horizontal frequency:	15.725kHz
Vertical frequency:	60Hz
Horizontal resolution:	700TV lines
Minimum illumination:	7.5 lx with F1.4, +18dB
Sensitivity:	F8.0 at 2000 lx
Gain selection:	OFF (0dB), MID (1dB to 17dB), HIGH (2dB to 18dB), AGC (0dB to 18dB variable)
Shutter speed selection:	OFF (1/60), 1/100, 1/250, 1/500, 1/1000, 1/2000s
Clear Scan range:	60Hz to 200.3Hz
S/N ratio:	60dB
Registration:	0.05% (all zones, without lens)
Geometric distortion:	Below measurable level

VTR Portion

Video

Video recording system:	Rotary 2-Head helical scan system
Output:	NTSC composite: 1.0Vp-p, 75Ω, sync negative S-VIDEO: Y: 1.0Vp-p, 75Ω, sync negative, C: 0.286Vp-p, at burst level, 75Ω, sync negative
Horizontal resolution:	400TV lines
S/N ratio:	44dB

Audio

Audio recording system: Rotary 2-Head helical scan system
Input (XLR-3-pin, female):

MIC:	-60dBu, 3kΩ, balanced
LINE:	+4dBu, 10kΩ, balanced
Phono:	-10dBu, 47kΩ, unbalanced
Output:	20Hz to 15kHz (PCM)
Frequency response:	Better than 80dB (PCM)
Dynamic range:	

Viewfinder

DXF-501

Picture tube:	1.5-inch monochrome
Indicators:	REC/TALLY/BATT/SHUTTER/GAIN UP
Resolution:	550TV lines
Power requirements:	DC 12V
Power consumption:	2.3W
Weight:	500g (1 lb 2 oz)
Dimensions:	Approx. 182 (W) × 64 (H) × 189 (D)mm (7 1/4 × 2 5/8 × 7 1/2 inches)

Zoom lens

VCL-713BX

Focal length:	7.5 to 97.5mm
Zoom ratio:	×13
Zoom control:	Manual/ Motorized
Maximum aperture ratio:	1:1.4
Iris control Manual/ Auto selectable:	F1.4 to F16 and C (close)
Range of object field (at the distance of 1.1 meter):	W (wide angle): 785 × 589mm (31 × 23 1/4 inches) T (telephoto): 61.7 × 46mm (2 1/2 × 1 7/8 inches)
Minimum object distance:	1.0mm
Filter thread:	Ø72mm P = 0.75
Mount:	1/2-inch bayonet mount
Weight (with lens hood):	Approx. 950g (2 lb 1 oz)
Dimensions (Ø × L):	Approx. 113 × 177mm (4 1/2 × 7 inches)

Dimensions

Technical drawings of the Honda CRF 1100L engine showing front and side views with dimensions.

Front View Dimensions:

- Overall Width: 474 (18 3/4)
- Overall Height: 209 (8 1/4)
- Engine Block Height: 113 (4 1/2)

Side View Dimensions:

- Overall Length: 298 (11 3/4)
- Overall Height: 245 (9 3/4)

unit: mm (inch)

EVO-720

8mm videocassette recorder/player

- A player and a recorder are integrated in a compact unit
- Easy to operate •The built-in editing facility enables quick edit and program edit •Up to 99 editing segments can be memorized in the Program Edit mode and the editing data can be recorded on an original videocassette •One monitor editing capability thanks to the picture-in-picture facility
- Superior quality dubbing (Y/C separate dubbing from the player to the recorder) •High fidelity audio thanks to the adoption of the AFM and PCM recording system •Audio after recording on the PCM tracks and audio adding to the AFM track during editing •Recognizable color pictures obtained at STILL, -17, -7, -3, -1, -1/5, 1, 2, 9, 19 times normal speed via the SEARCH dial on the controller
- A field picture can be stored in the digital memory to be recorded onto a videocassette •8mm time code additional recording capability •Title recording capability •Editing data, the four digit number of the tape counter, and player/recorder picture indication can be superimposed on the monitor

Supplied accessories: Editing controller RM-E720
Title keyboard KI-720
Cleaning cassette V8-25CLN
AV cable VMC-710M (1m)

Specifications

General

Weight: 8kg (17 lb 10 oz)
Dimensions: 355 (W) × 116 (H) × 387 (D)mm
(14 × 4⁵/₈ × 15¹/₄ inches)
Power requirements: AC 120V ±10%, 50/60Hz
Power consumption: 38W
Operating temperature: 5 to 40°C (41 to 104°F)
Videocassette: 8 mm format videocassette
Tape speed: SP: 14.3mm/s
LP: 7.2mm/s
REC or PB time: SP: 120min with P6-120
LP: 240min with P6-120
Recording and playback mode: SP/LP playback
SP recording

Video

Video recording format: Two rotary heads and a flying erase head, helical scanning FM system
Video signal system: EIA monochrome/NTSC color
Input: BNC connector
Video: 1Vp-p, 75Ω unbalanced, sync negative
Output: BNC connector
1Vp-p, 75Ω, unbalanced, sync negative
Horizontal resolution: 250 lines (SP, color)
S/N ratio: 45dB (SP, color)

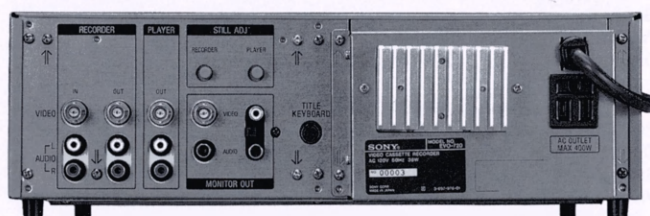
Audio

Input: Line: Phono jack -10dBu, more than 47kΩ
Microphone: Phone jack (monaural) -60dBu, 6.8kΩ
Output: Phono jack
-10dBu (250mV, at load impedance 45kΩ)
less than 10kΩ

Frequency response: AFM: 30Hz to 15kHz (SP/LP)
PCM: 20Hz to 15kHz (SP/LP)

Connectors

Remote connectors: TITLE KEYBOARD connector for the KI-720,
CONTROLLER connector for the RM-E720



4-1 8mm VTRs

VIDEOCASSETTE
RECORDERS

EVO-540

8mm videocassette recorder/player

Compact and lightweight by taking advantage of 8mm format

- Quasi Hi8 Playback •PCM stereo and AFM Hi-Fi stereo audio playback/recording capability •Bilingual function enables recording for secondary audio •Dual mode shuttle ring on the front panel for easy operation •Built-in 8mm and RC (Re-writable consumer) time code reader •Auto repeat function •Control L and Control P IN/OUT connector
- Supplied wireless remote controller RMT-540

Supplied accessories: Wireless remote commander RMT-540
Cleaning tape
Operation manual
AC cable

Specifications

General

Weight: Approx. 2.2kg (4 lb 14 oz)
Dimensions: 225 (W) × 75 (H) × 252 (D)mm
(8 7/8 × 3 × 10 inches)
Power requirements: AC 100/ 120V, 50/ 60Hz
Power consumption: 14W
Operating temperature: 5 to 40°C (41 to 104°F)
Storage temperature: -20 to 60°C (-4 to 140°F)
Video cassette:
Playback/ Recording: P6-MP series
Playback only: P6-HME/ HMEEX, P6-HMP/HMPX
Tape speed: 1.43cm/ sec (Rec)
Recording mode: SP mode only
Playback mode: SP/LP mode
FF/REW time: 3 min (Sony P6-90)
Search speed: -1/5, -1, Still, 1/5, ×1, ×2, Cue/ Review, Locked Cue/ Review, FR search

Video

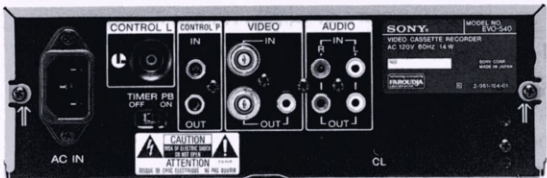
Video signal: EIA standard, NTSC color
Video recording system: Rotary 2 head helical scan system
Recording mode: Standard 8mm
Playback mode: Standard 8mm, Hi8 Quasi playback
Horizontal resolution: Standard mode: 230TV lines
Standard mode: 42dB
S/N ratio:
Input: BNC connector: 1Vp-p, 75Ω, unbalanced, sync negative
Output: BNC connector: 1Vp-p, 75Ω, unbalanced, sync negative
Phono connector 1Vp-p, 75Ω, unbalanced, sync negative

Audio

Recording system: Rotary 2-head
AFM audio: Stereo
PCM audio: Stereo
Frequency response: AFM: 30Hz to 14kHz
PCM: 20Hz to 15kHz
AFM: better than 60dBu
PCM: better than 75dBu
Dynamic range:
Input: Phono jack: -7.5dBu
Input impedance more than 47kΩ
Output: Phono jack: -7.5dBu
Output level: -7.5 at load impedance, 47kΩ
Output impedance less than 2.2kΩ

Connectors

Video: Line input: BNC
Line output: BNC, Phono
Audio: Line input: Phono (stereo) 1 set
Line output: Phono (stereo) 1 set
Others: Control L: Mini jack
Control P IN/ OUT: Pin jack
AC Inlet: Un-switched



RMT-540

4-1 8mm VTRs

EVO-220

8mm Videocassette recorder/ player

- Compact and lightweight; 670g (11 lb 8 oz without battery)
- Quasi Hi8™ playback capability allows Hi8 recorded tape playback
- Quick start function: Approx. 2 seconds from STOP to REC mode
- SP/LP mode recording/playback capability
- Three-power source operation: AC power with the optional AC-S10 AC adaptor, car battery operation with supplied DCP-77 DC pack and battery pack operation
- Linear Time counter
- Automatic switching of the Video/ Audio In/Out according to the operation mode
- Control L IN terminal for remote control operation
- AFM Hi-Fi stereo recording capability
- Secondary audio playback capability for Bi-lingual sound program
- Warning indication for battery and dew moisture condensation
- Sliding safty lid on the front panel to prevent accidental operation of the function buttons
- Alarm recording capability with the use of the PGV-220 Alarm Recording Adaptor

Supplied accessories: Car battery adaptor DCP-77
Operation manual

Optional accessories: Rechargeable battey pack NP-60D/NP-80/NP-80D
Car battery charger DC-S10
AC power adaptor AC-S10
Alarm recording adaptor PGV-220

Specifications

General

- Power requirements: Battery mounting surface input: 6.0V (battery pack)
Power consumption: 3.8W
Operating temperature: 0 to 40°C (32 to 104°F)
Storage temperature: -20 to 60°C (-4 to 140°F)
Dimensions: 147.5(W) × 61.5(H) × 129.5(D)mm
(5 7/8 × 2 1/2 × 5 1/8 inches)
Weight: Approx. 670g (1 lb 8 oz) without battery

System

- Video recording system: Rotary two-head helical scanning FM system
Audio recording system: Rotary head, FM stereo system
Color system: EIA standard, NTSC color
Video cassettes: P6-15/30/60/90/120/150
8mm video format cassette
Tape speed: SP mode: Approx. 1.43cm/s
LP mode: Approx. 0.72cm/s
Recording time: SP mode: 2 hours 30 min
LP mode: 5 hours
(with Sony P6-150 cassette)
Playback time: SP mode: 2 hours 30 min
LP mode: 5 hours
(with Sony P6-150 cassette)
F FWD/ REW time: Approx. 8 min (with Sony P6-120 cassette)

Video*

- Input: Phono connector
1.0Vp-p, sync negative, 75Ω unbalanced
Output: 1.0Vp-p, sync negative, 75Ω unbalanced

Audio*

- Input : Phono connector (×2, stereo)
-7.5dBu, input impedance more than 47kΩ
Output: -7.5dBu, (330mV) at load impedance 47kΩ, output impedance less than 10kΩ

*Input/output is automatically selected according to the operating mode.

- Phones: Stereo mini jack, 8Ω
AV OUT: Stereo mini jack (monaural sound)

Others

- AV OUT: 12-pin terminal
REMOTE (Control L): Stereo mini-mini jack



EVM-8010R

• Portable 8-inch monitor combined with an 8mm VTR
 • 2 power source operation with AC power cord, two optional NP-1As or NP-1Bs, • Built-in battery charger for two packs of NP-1A* • Equipped with Video/Audio in/out and monitor out connectors • User-oriented design contributes to easy operation • Optional remote control unit RM-749

*NP-1B cannot be charged.

Supplied accessories: AC power cord

Instruction manual

Optional accessories: Rechargeable battery pack NP-1A

Rechargeable battery pack NP-1B

Battery charger BC-1WD

Wireless remote control unit RM-749

Specifications

Monitor

Video signals: 525 lines, 60 fields

Color system: NTSC

Picture tube: 9-inch TRINITRON tube, visible picture size

8-inch measured diagonally, 70° deflection

8mm VTR

Video recording system: Two rotary heads and a flying erase head, helical scanning FM system

Audio recording system: Rotary head, FM system

Usable cassettes: 8mm format videocassettes

Tape speed: SP: 1.43cm/s

LP: 0.72cm/s (playback only)

Recording/playback time:

120min (P6-120)

Fast forward time: Approx. 3min (P6-90)

Resolution: 230TV lines in SP mode

General

Power requirements: AC 120V, 50/60Hz, DC 12V, with the optional Sony NP-1A or NP-1B battery pack

AC 40W, DC 35W

Power consumption: 0.8W

Audio power output: 0.8W

Video input: Composite: 1Vp-p, sync negative, 75Ω and high impedance switchable,

Loop-through BNC connector

Audio input: -5dBu, high impedance, monaural,

Loop-through Phono connector

Monitor output (Video 8):

Video: Composite 1Vp-p, sync negative, 75Ω, BNC connector

Audio: -5dBu, low impedance, monaural,

Phono connector

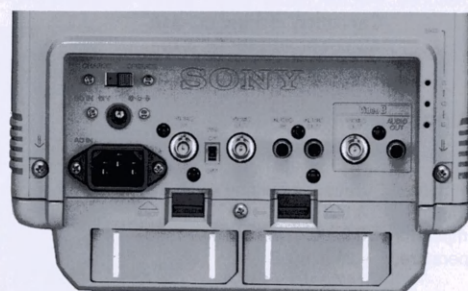
Headphone output: 8Ω, monaural, mini

Operating temperature: 0 to 40°C (32 to 104°F)

Dimensions: 242 (W) × 274 (H) × 327 (D)mm

(9⁵/₈ × 10⁷/₈ × 12⁷/₈ inches)

Weight: Approx. 8kg (17 lb 10 oz) (without battery)



RM-749

Wireless remote control unit for EVM-8010R

• Control 8mm VTR section of EVM-8010R at distance of up to 5m

Remote control system: Infrared control

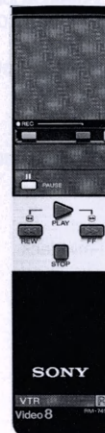
Power requirements: DC 3V, two size AA (R6) batteries

Dimensions: Approx. 43(W) × 18(H) × 175(D)mm

(1³/₄ × 3³/₄ × 7 inches)

Weight: Approx. 110g (4 oz) (with batteries)

Supplied accessories: Sony SUM-3 (NS) batteries (2)



4-2 Hi8/8 mm videocassette tapes

Hi8 HMEX series 8mm videocassette

- Metal Evapolated Tape for Hi8 recording
- For maximizing Hi8 performance
- Hi8 mode recording can be activated via the detection holes on the back of the cassette
- Rugged, pro-type album case

Model	Playing time (min)	Tape length m (ft)	Weight* g (lb)
E6-30HMEX	30	28 (92)	77 (0.17)
E6-60HMEX	60	54 (177)	80 (0.176)
E6-120HMEX	120	106 (348)	86 (0.189)

*with case



VIDEOCASSETTE
RECORDERS

Hi8 HMPX series 8mm videocassette

- Metal particle tape for Hi8 recording
- Hi8 mode recording can be activated via the detection holes on the back of the cassette
- Rugged, pro-type album case

Model	Playing time (min)	Tape length m (ft)	Weight* g (lb)
P6-30HMPX	30	28 (92)	78 (0.172)
P6-60HMPX	60	54 (177)	82 (0.182)
P6-90HMPX	120	106 (348)	90 (0.198)

*with case



MP series 8mm videocassette

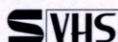
- For all 8mm videocassette recorder
- For standard 8mm recording

Model	Playing time (min)
P6-15MP	15
P6-30MP	30
P6-60MP	60
P6-90MP	90
P6-120MP	120



S-1 S-VHS VTRs

SVO-9600



S-VHS videocassette recorder

- High quality S-VHS picture and sound
- Four channel audio recording system; two for Hi-Fi (AFM) and two for normal longitudinal audio
- Quick response mechanism with two Direct-Drive reel motors to provide smooth operation
- Auto head cleaner to provide preventive care of the tape heads
- Soft pause for gentle tape operation
- Dial menu operations via the search dial for a variety of customized VTR mode settings
- Recognizable color picture search: STILL, 1/30, 1/10, 1/5, 1/2, 1, 2, 5 times normal speed in the forward and reverse directions (± 10 times with remote control unit)
- Frame by frame picture search with the JOG dial
- Programed operation with MARK IN A and MARK IN B
- Timer Rec and Play function for unattended operations
- Sensor recording function
- Audio dubbing function for additional audio, such as music or narration, recording
- Error code and real time counter indication on the LED display
- Auto repeat/auto rewind/counter memory function by programed operation
- Optional remote control unit of SVRM-100 and RM-V200
- Optional interface: SVBK-100 for 33-pin interface, SVBK-120 for RS-232C interface, and SVBK-140 for RS-422A 9-pin remote interface
- Optional boards: SVBK-150 Digital Noise Reducer and SVBK-160 Time Code Board (used with SVBK-140)

Supplied Accessories: AC power cord

Instruction manual

Optional Accessories: 33-pin interface board SVBK-100

Computer interface board (RS-232C) SVBK-120

RS-422A interface board SVBK-140

Digital noise reducer SVBK-150

Time code board SVBK-160

Remote control unit SVRM-100

Remote control unit RM-V200

Rack mount kit RMM-980

S-VHS videocassette MQST-30/60/120

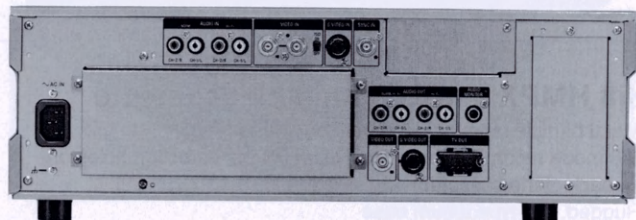
Specifications

General

Weight: 14.0kg (30 lb 14 oz)
 Dimensions: 424 (W) \times 147 (H) \times 452 (D)mm
 (16 $\frac{3}{4}$ \times 5 $\frac{7}{8}$ \times 17 $\frac{7}{8}$ inches)
 Power requirements: AC 100 to 120V, 50/60Hz
 Power consumption: Less than 49W
 Operating temperature: 5 to 40°C (41 to 104°F)
 REC/PB mode: SP
 Tape Speed: SP: 33.35mm/s
 Tape format: S-VHS or VHS
 F FWD and REW time: Max. 2.5min (with SE-120)

Video

Video signal: EIA monochrome, NTSC Color
 Video recording system: Rotary two-head helical scanning FM system
 Input: BNC: 1.0Vp-p, 75 Ω , sync negative
 S-VIDEO: Mini DIN 4-pin
 Y: 1.0Vp-p, 75 Ω , sync negative
 C: 0.286Vp-p, at burst level, 75 Ω
 Output: BNC: 1.0Vp-p, 75 Ω , sync negative
 S-VIDEO: Mini DIN 4-pin
 Y: 1.0Vp-p, 75 Ω , sync negative
 C: 0.286Vp-p, at burst level, 75 Ω
 Horizontal resolution: More than 400TV lines (S-VHS)
 More than 240TV lines (VHS)
 S/N ratio: 46dB (color)



Audio

Input: Phono: -6dBu, 47k Ω , unbalanced
 Output: Phono: -6dBu, 10k Ω , unbalanced
 Monitor Output: Phono: -5dBu, 10K Ω
 Frequency response: 50Hz to 12kHz (in normal mode)
 20Hz to 20kHz (in Hi-Fi mode)
 Dynamic range: 90dB (in Hi-Fi mode)

Connectors

Video: IN \times 1 with loopthrough out (BNC)
 OUT \times 1 (BNC)
 SYNC IN \times 1 (BNC)
 Audio: Hi-Fi (AFM) IN \times 2 (Phono)
 NORMAL IN \times 2 (Phono)
 Hi-Fi (AFM) OUT \times 2 (Phono)
 NORMAL OUT \times 2 (Phono)
 Monitor OUT \times 1 (Phono)
 S VIDEO: IN \times 1 (Mini DIN 4-pin)
 OUT \times 1 (Mini DIN 4-pin)
 TV connector: OUT \times 1 (8-pin)

SVP-9000



S-VHS Hi-Fi videocassette player

•High quality S-VHS picture and sound •Four channel audio playback system; two for Hi-Fi (AFM) and two for normal longitudinal audio •Dolby Noise Reducer for normal audio •Quick response mechanism with two Direct-Drive reel motors to provide smooth operation •Auto head cleaner to provide preventive care of the tape heads •Soft pause for gentle tape operation •Dial menu operations via the search dial for a variety of customized VTR mode settings •Recognizable color picture search: STILL, 1/30, 1/10, 1/5, 1/2, 1, 2, 5 times normal speed in the forward and reverse directions (± 10 times with remote control unit) •Frame by frame picture search with the JOG dial •Programed operation with MARK IN A and MARK IN B •Timer Rec and Play function for unattended operations •Error code and real time counter indication on the LED display •Auto repeat/auto rewind/counter memory function by programed operation •Optional remote control unit of SVRM-100 and RM-V200 •Optional interface: SVBK-100 for 33-pin interface, SVBK-120 for RS-232C interface, and SVBK-140 for RS-422A 9-pin remote interface •Optional boards: SVBK-150 Digital Noise Reducer and SVBK-160 Time Code Board (used with SVBK-140)

- Supplied Accessories: AC power cord
Instruction manual
- Optional Accessories: 33-pin interface board SVBK-100
Computer interface board (RS-232C) SVBK-120
RS-422A interface board SVBK-140
Digital noise reducer SVBK-150
Time code board SVBK-160
Remote control unit SVRM-100
Remote control unit RM-V200
Rack mount kit RMM-980
S-VHS videocassette MQST-30/60/120

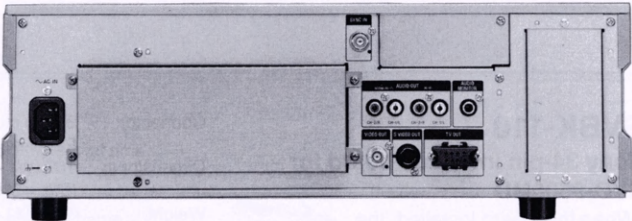
Specifications

General
Weight: 14.0kg (30 lb 14 oz)
Dimensions: 424 (W) \times 147 (H) \times 452 (D)mm
(16³/₄ \times 5⁷/₈ \times 17⁷/₈ inches)
Power requirements: AC 120V, 60Hz, 3 wire grounded receptacle
Power consumption: Less than 48W
Operating temperature: 5 to 40°C (41 to 104°F)
Playback mode: SP
Tape Speed: SP: 33.35mm/s
Tape format: S-VHS or VHS
F FWD and REW time: Max. 2.5min (with MQST-120)

Video
Video signal: NTSC (color) / EIA (monochrome)
Video playback system: Rotary two-head helical scanning FM system
Output: BNC: 1.0Vp-p, 75 Ω , sync negative
S-VIDEO: Mini DIN 4-pin
Y: 1.0Vp-p, 75 Ω , sync negative
C: 0.286Vp-p, at burst level, 75 Ω
S/N ratio: 46dB

Audio
Output: Phono connector ($\times 2$)
Frequency response: 50Hz to 12kHz (in normal mode)
20Hz to 20kHz (in Hi-Fi mode)
Dynamic range: 90dB (in Hi-Fi mode)

Connectors
Video: OUT \times 1 (BNC)
SYNC IN \times 1 (BNC)
Audio: Hi-Fi OUT \times 2 (Phono)
Hi-Fi/NORMAL OUT \times 2 (Phono)
Monitor OUT \times 1 (Phono)
S-VIDEO: OUT \times 1 (Mini DIN 4-pin)
TV connector: OUT \times 1 (8-pin)



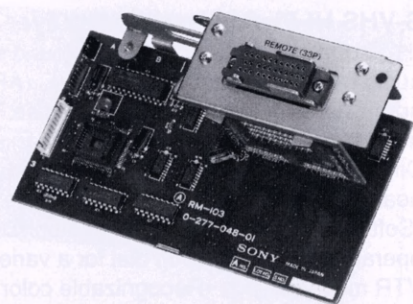
5-2 S-VHS VTR accessories

SVBK-100

Sony 33-pin interface board for SVO-9600/9500MD and SVP-9000

•When this board installed, basic VTR functions can be remotely controlled via 33-pin parallel interface

Connector: 33-pin multi connector
Parallel control signal
Dimensions: 168 (W) × 92 (H) × 60 (D)mm
(6⁵/₈ × 3⁵/₈ × 2³/₈ inches)
Weight: 300g (11 oz)

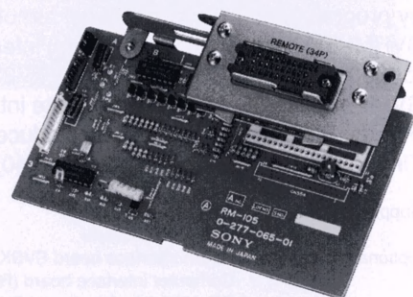


SVBK-110

Sony 34-pin interface board for SVO-9500MD

•When this board installed, the SVO-9500MD can be integrated into the 34-pin based control system

Connector: 34-pin multi connector
Parallel control signal
Dimensions: 168 (W) × 92 (H) × 60 (D)mm
(6⁵/₈ × 3⁵/₈ × 2³/₈ inches)
Weight: 300g (11 oz)

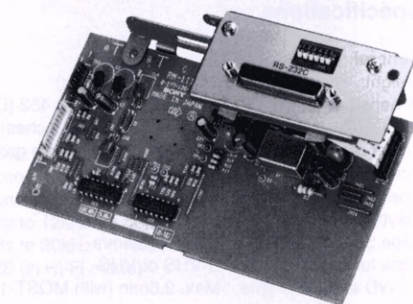


SVBK-120

Computer interface board for SVO-9600/9500MD and SVP-9000

•Provides RS-232C interface which enables direct control of a VTR from an external computer

Connector: D-sub 25-pin multi-connector (female)
Parallel control signal
Dimensions: 168 (W) × 92 (H) × 60 (D)mm
(6⁵/₈ × 3⁵/₈ × 2³/₈ inches)
Weight: 300g (11 oz)

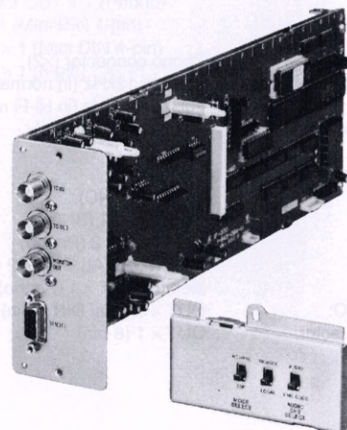


SVBK-140

Sony RS-422A interface board for SVO-9600 and SVP-9000

•By installing this board, the SVO-9600/SVP-9000 can be equipped with 9-pin REMOTE (RS-422A) interface to be configured into Sony's 9-pin based control system

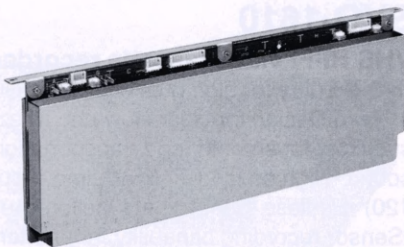
Input/Output connector:
TC IN: BNC × 1
0dB ±6dB (0dB=1.55Vp-p),
10kΩ unbalanced
TC OUT: BNC × 1
0dB ±3dB, low impedance,
unbalanced
MONITOR OUT: BNC × 1
REMOTE: D-sub 9-pin × 1
Supplied accessories:
Screw
Operation manual



SVBK-150
Sony digital noise reducer board
for SVO-9600 and SVP-9000

- Reduces both Y (luminance) and C (chrominance) noise with its YNR (noise reducer) and CNR
- Provides Y Enhance function, TBS (Time Base Stabilizer), and Field dropout compensation

Dimensions: 318 (W) × 106 (H) × 26 (D)mm
(12⁵/₈ × 4¹/₄ × 1¹/₁₆ inches)
Weight: 370g (13 oz)
Supplied accessories:
Operation manual

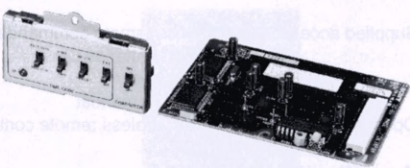


VIDEOCASSETTE
RECORDERS

SVBK-160
Sony time code board for
SVO-9600 and SVP-9000

- Attaches to the SVBK-140 RS-422A Interface Board
- When this board installed, the VTR can record (SVO-9600 only) and read the SMPTE time code
- Consists of the following components: TC-69 board/Switch panel/Flat cable

Applicable time code:
SMPTE or EBU longitudinal time code (LTC)
Drop frame (NTSC mode only):
Drop frame or non-drop frame selectable
Dimensions: Board:
118.5 (W) × 85 (H) × 10 (D)mm
(4³/₄ × 3³/₈ × 1³/₃₂ inches)
Panel:
85 (W) × 52.5 (H) × 13 (D)mm
(3³/₈ × 2¹/₈ × 1⁷/₃₂ inches)
Weight: Board: 80g (2.8 oz)
Panel: 70g (2.5 oz)



SVRM-100
Remote control unit for the
SVO-9600/9500MD and SVP-9000

- Features especially for the SVO-9500MD**
- Index search function
 - Three freeze mode: frame freeze, first field freeze and second field freeze

- Features for the SVO-9600/9500MD and SVP-9000**
- Provides wired remote control operation for STOP/REC/PAUSE/REW/PLAY/FFWD
 - JOG/SHUTTLE operation
 - Enables ±10 times normal speed in search operation

Power requirements:
DC 5V (supplied from the VTR)
Power consumption:
40mW
Remote control:
Stereo mini plug
Control signal: Control S
Dimensions: 90(W) × 39(H) × 182(D)mm
(3⁵/₈ × 1⁹/₁₆ × 7¹/₄ inches)
Weight: 250g (8.8 lb)



MQST series S-VHS Videocassette tapes

- Metal particle tape for S-VHS recording
- Anti-static lid to protect the tape from dirt and dust particles for low dropouts
- S-VHS mode recording can be activated via the detection holes on the back of the cassette
- Rugged, pro-type album case

Model name	Playing time* (min)	Tape length m (ft)	Weight** g (lb.)
MQST-30	30	64 (210)	345 (0.76)
MQST-60	60	125 (410)	360 (0.79)
MQST-120	120	246 (807)	390 (0.86)

* Playing time = SP mode
** with case



SVO-1610

VHS Hi-Fi

VHS Hi-Fi videocassette recorder/player

•HQ circuitry for high quality picture •Dual Azimuth (DA) 4-Head Design for clear slow and freeze pictures •Tape stabilizer for smooth tape transportation •VHS Hi-Fi stereo sound •High speed FF/ REW time: Approx. 2.5 minutes (T-120) •Endless auto repeat function •Auto head cleaner •Sensor recording capability for unattended automatic recording •Sequential playback •One-time playback •Power on & recording/playback capability •SP/EP/LP mode recording •On-screen Menus for convenient operation •Index search •Linear time counter •Key Inhibit function •Dual mode shuttle control for both the SVO-1610 and the remote controller •Control S IN/OUT terminals to be operated from RM-V200 optional remote controller or multiple VTR operation •BNC VIDEO IN/OUT connectors •8-pin AV connector •Burglar-proof Hook •Camcorder friendly design of audio/video connectors •Supplied wireless remote commander for remote operation

Supplied accessories: Wireless remote commander RMT-V121C
Size AA batteries (2)
AC power cord
Instruction manual

Optional accessories: Wired/ wireless remote control unit RM-V200

Specifications

General

Weight: 6.1kg (13 lb 7 oz)
Dimensions: 430(W) × 95(H) × 350(D)mm
(17 × 3³/₄ × 13⁴/₅ inches)
Power requirements: AC 120V, 60Hz, 3 wire grounded receptacle
Power consumption: 26W
Operating temperature: 5 to 40°C (41 to 104°F)
Tape speed: SP: 33.35mm/s (1³/₈ inches/s)
LP: 16.67mm/s (1¹/₁₆ inches/s)
EP: 11.12 mm/s (1⁵/₃₂ inches/s)
REC and PB mode: SP/LP/EP Recording/Playback
F FWD and REW time: Approx. 2.5 min. (T-120)

Video

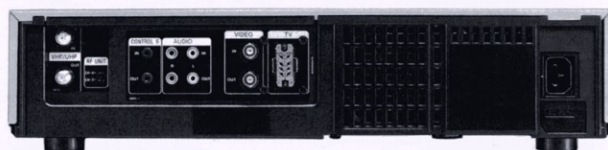
Color system: EIA standard (monochrome)/ NTSC (color)
Video recording system: Rotary two-head helical scanning system
Input
Composite: BNC connector
1Vp-p, 75Ω, unbalanced, sync negative
Output
Composite: BNC connector
1Vp-p, 75Ω, unbalanced, sync negative
Monitor OUT: 8-pin connector
1Vp-p, 75Ω, unbalanced, sync negative

Audio

Audio recording system: Rotary two-head Hi-Fi system
(Recording on the conventional audio track is monaural)
Input: Phono: -8dBu, 47kΩ
Output: Phono: -8dBu at 47kΩ, 10kΩ
Frequency response: 20 Hz to 20 kHz (Hi-Fi mode)
Distortion: Less than 0.5% (Hi-Fi mode)
Wow/Flutter: Less than 0.35% (Normal mode)

Tuner

Tuner system: 181-channel, frequency synthesizer tuning system
Channel coverage: VHF channels: 2 to 13
UHF channels: 14 to 69
CATV channels:
Low band: A-8
Mid band: A-5 through A-1, A through 1
Superband: J through W
Hyperband: (W+1) through (W+84)
Antenna: 75Ω F type connector antenna terminal for VHF/ UHF



RMT-V121C (supplied)

Timer

Clock: Quartz locked
Timer Indication: 12-hour cycle
Timer setting: 6 programs for 1 year max.
Power back-up: Back-up duration: 60 min.
Tape counter: Linear time counter

Connectors

Video: Input × 1 (BNC)
Output × 1 (BNC)
Audio: Input × 1 (Phono)
Output × 1 (Phono)
8-pin connector × 1
Monitor out: 8-pin connector × 1
Control S: Input × 1 (Mini jack)
Output × 1 (Mini jack)
VHF/ UHF: Input × 1 (F type)
Output × 1 (F type)

Wireless remote control unit

Remote control system: Infrared control
Command mode: VTR 3
Power requirements: DC 3V, 2 size AA batteries
Dimensions: 68 (W) × 31 (H) × 200 (D) mm
(2³/₄ × 1¹/₄ × 7⁷/₈ inches)
Weight: 148g (5 oz, excluding batteries)

SVO-1410



VHS videocassette recorder/player

- HQ circuitry for high quality picture
- Dual Azimuth (DA) 4-head design for clear slow and freeze pictures
- Tape stabilizer for smooth tape transportation
- Quick response mechanism
- Digital auto tracking to eliminate the need for manual adjustment
- Endless auto repeat function
- Auto head cleaner
- Key inhibit function
- Index search
- On-screen menus for convenient operation
- Linear time counter
- Control S IN terminal to be remotely controlled from the optional RM-V200
- 8-pin TV connector
- BNC IN/OUT connectors
- Supplied wirelee remote commander RMT-V272 for remote control operation
- Burgler-proof Hook

Supplied accessories: Wireless remote commander RMT-V272
Size AA battery (IEC designation R6) (2)
Instruction manual

Optional accessory: Wired remote control unit RM-V200

Specifications

General

Weight: 5.8kg (12 lb 13 oz)
Dimensions: 430(W) × 90(H) × 360(D)mm
(17 × 3⁵/₈ × 14¹/₄ inches)
Power requirements: AC 120V, 60Hz, 3 wire grounded receptacle
Power consumption: 15W
Operating temperature: 5 to 40°C (41 to 104°F)
Tape speed: SP: 33.35 mm/s (1³/₈ inches/s)
LP: 16.67 mm/s (1¹/₁₆ inches/s)
EP: 11.12 mm/s (1⁵/₃₂ inches/s)
REC and PB mode: SP/LP/EP Recording/Playback
F FWD and REW time: Approx. 4 min (T-120)

Video

Color system: EIA standard (monochrome)/NTSC (color)
Video recording system: Rotary two-head helical scanning FM system
Input (Composite): BNC connector
1Vp-p, 75Ω, unbalanced, sync negative
Output (Composite): BNC connector
1Vp-p, 75Ω, unbalanced, sync negative
S/N ratio: 44 dB(SP mode)

Audio

Input: Phono, -8dBu, load impedance 47kΩ
Output: Phono, -8dBu at output impedance 10kΩ
Frequency response: 100Hz to 10kHz

Tuner

Tuner system: 181-channel, frequency synthesizer tuning system
Channel coverage: VHF channels: 2 to 13
UHF channels: 14 to 69
CATV channels:
Low band: A-8
Mid band: A-5 through A-1, A through 1
Superband: J through W
Hyperband: (W+1) through (W+84)
Antenna: 75Ω F type connector antenna terminal for VHF/UHF

Timer

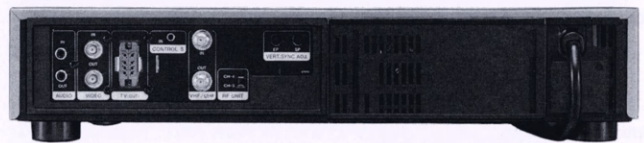
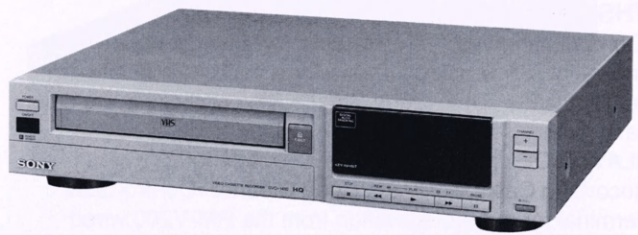
Clock: Quartz locked
Timer Indication: 12-hour cycle
Timer setting: 6 programs for 1 year max.
Power back -up: Back up duration: 5 seconds
Quick timer: Interval of 30 min.

Connectors

Video: Line in × 1 (BNC)
Line out × 1 (BNC)
Audio: Line in × 1 (Phono)
Line out × 1 (Phono)
TV connector: Out × 1 (8-pin)
Control S: Input × 1 (Mini jack)
RF: Input × 1 (F type)
Output × 1 (F type)

Wireless remote commander (RMT-V272)

Remote Control System: Infrared control
Power requirements: DC 3V, size AA battery × 2 (IEC designation R6)
Dimensions: 62(W) × 175(H) × 18(D)mm (2¹/₂ × 7 × 23/₃₂ inches)
Weight: 94g (3 oz) excluding batteries



RMT-V272 (supplied)

5-3 VHS VTRs

SVO-1300

VHS

VHS videocassette recorder/player

•Compact and Lightweight: 300mm (11⁷/₈ inches) in width and weighs only 3.9kg (12 lb 16 oz) •HQ circuitry for high quality picture •Dual Mode Shuttle Ring realizes quick and easy picture search: FF/REW/STILL as well as PLAY/STOP operation are controlled •SP/LP/EP Mode Recording Capability •Auto Head Cleaner •Control S IN Terminal for remote operation from the RM-V200 wired remote control unit •Supplied Wireless Remote Commander RMT-V100G: Locked picture search, Still/Frame advance (FWD) •Rental picture function

Supplied accessories: Wireless remote commander RMT-V100G

Size AA batteries (x2)

Operation manual

Antenna cable

Phono - BNC connector (x2)

Optional accessory: Wired remote control unit RM-V200

Specifications

General

Weight: Approx. 3.9kg (8 lb 9 oz)

Dimensions: Approx. 300(W) × 88 (H) × 366(D) mm
(11⁷/₈ × 3¹/₂ × 14¹/₈ inches)

Power requirements: AC 110 to 240V, 50/ 60Hz,
three-wire receptacle

Power consumption: 12W

Operating temperature: 5 to 40°C (41 to 104°F)

Tape speed:
SP: 33.35mm/s (1³/₈ inches/s)
LP: 16.67mm/s (1¹/₁₆ inches/s)
EP: 11.12mm/s (1⁵/₃₂ inches/s)

REC and PB mode: SP/LP/EP mode

REC and PB time: SP: 160min (T-160)

EP: 8 hours (T-160)

F FWD and REW time: Approx. 4min 15s (T-120)

Video cassette: SONY T-160/120/60/30 VHS videocassette tape

Video

Video signal system: EIA monochrome/NTSC color

Video recording system: Rotary two-head helical scanning system

Input: Phono connector

1.0Vp-p, sync negative, 75Ω, unbalanced

Output: Phono connector

1Vp-p, sync negative, 75Ω, unbalanced

Audio

Audio recording system: Monaural

Input: Phono connector

-8dBu, input impedance 47kΩ

Output: Phono connector

-8dBu at load impedance 47kΩ

Output impedance less than 10kΩ

Frequency response: 80Hz to 10kHz (SP)

Wow and flutter: Less than 0.35%

S/N ratio: More than 38dB (SP)

RF Converter

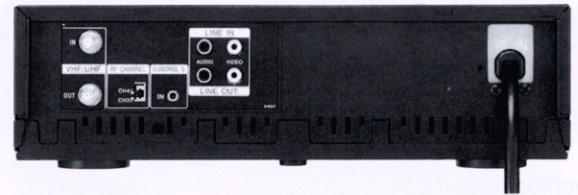
Channel Coverage: VHF channels 3 to 4

Antenna: IN: 75Ω F-type antenna terminal for VHF/UHF

OUT: 75Ω F-type antenna terminal for VHF/UHF

Other

Control S IN: Minijack



RMT-V100G
(Supplied)

SVO-1250



VHS videocassette recorder/player

•Compact and light weight: 300mm (11⁷/₈ inches) in width, 3.9kg (8lb 9 oz) in weight •Optimum Picture Control (OPC) provides optimum picture reproduction regardless of a tape/VTR condition •Long-life head •HQ circuitry for high quality picture •Auto tracking •Auto head cleaner •Control S IN terminal •Dual Mode Shuttle Ring for FF/REW/STILL as well as play and stop •Uni commander: Locked picture search, Still/ Frame advance (FWD), slow motion •Auto power ON •Auto rewind •Off power eject •MEP (Miss Erase Prevention) eject •Rental picture ON/OFF

Supplied accessories: Wireless remote control unit RMT-136D
Antenna cable (1.5m, F type)
Size AA batteries (x2)
Phono-BNC connector (x2)
AC power cord
Operation manual

Optional accessory: Wired remote control unit RM-V200

Specifications

General

Weight: 3.8kg (8 lb 6 oz)
Dimensions: 300(W) × 88(H) × 366(D)mm
(11⁷/₈ × 3¹/₂ × 14¹/₂ inches)
Power requirements: AC 110 to 240V, 50/60Hz, two-wire receptacle
Power consumption: 12W
Operating temperature: 5 to 40°C (41 to 104°F)
Storage temperature: -20 to 60°C (-4 to 140°F)
Videocassette: Sony T-30/60/120/160
Tape speed: SP: 33.35mm/s (1³/₈ inches/s)
LP: 16.67mm/s (1¹/₁₆ inches/s)
EP: 11.12mm/s (1⁵/₃₂ inches/s)
F FWD and REW time: Less than 4min 15s (T-120)

Video

Color system: EIA monochrome/NTSC color
Video recording system: Rotary two-head helical scanning system
Input: Phono connector
1Vp-p, sync negative, 75Ω, unbalanced
Output: Phono connector
1Vp-p, sync negative, 75Ω, unbalanced

Audio

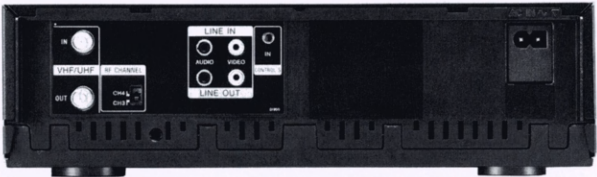
Input: Phono connector
-8dBu, 47kΩ
Output: Phono connector
-8dBu at load impedance 47kΩ,
Output impedance less than 10kΩ
Frequency response: 180Hz to 10kHz(sp)
Distortion: Less than 4%
Wow and flutter: Less than 0.35%(sp)

RF converter

Channel coverage: VHF channels 3 to 4
Antenna: IN: 75Ω F-type antenna terminal for VHF/UHF
OUT: 75Ω F-type antenna terminal for VHF/UHF

Other

Control S IN: Minijack



RMT-V136D
(Supplied)

SVP-1000A

VHS

VHS videocassette player

•Compact and light weight: 300mm (11⁷/₈ inches) in width, 3.8kg (8 lb 6 oz) in weight •Uni commander: Locked picture search, Still/ Frame advance (FWD), slow motion •Optimum Picture Control (OPC) provides optimum picture reproduction regardless of the tape/VTR condition •Long-life head •HQ circuitry for high quality picture •Auto tracking •Auto head cleaner •Control S IN terminal •Rental picture •Auto power ON •Auto rewind •Off power eject •MEP (Miss Erase Prevention) eject

Supplied accessories: AC power cord
Operation manual

Optional accessory: Wired/wireless remote control unit RM-V200

Specifications

General

Weight: 3.8kg (8 lb 6 oz)
Dimensions: 300(W) × 88(H) × 358(D)mm
(11⁷/₈ × 3¹/₂ × 14¹/₈ inches)
Power requirements: AC 110 to 240V, 50/60Hz
Power consumption: 12W
Operating temperature: 5 to 40°C (41 to 104°F)
Storage temperature: -20 to 60°C (-4 to 140°F)
Videocassette: Sony T-30/60/120/160
Tape speed: SP: 33.35mm/s (1³/₈ inches/s)
LP: 16.67mm/s (1¹/₁₆ inches/s)
EP: 11.12mm/s (1⁵/₃₂ inches/s)
F FWD and REW time: Less than 4min 15s (T-120)

Video

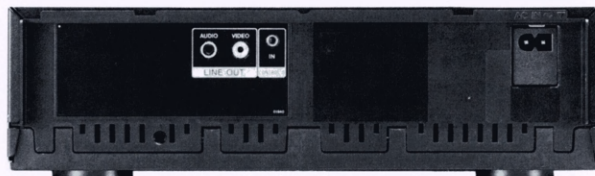
Color system: EIA monochrome/NTSC color
Video recording system: Rotary two-head helical scanning system
Output: Phono connector
1Vp-p, sync negative, 75Ω, unbalanced

Audio

Output: Phono connector
-8dBu at load impedance 47kΩ,
Output impedance less than 10kΩ
Frequency response: 50Hz to 10KHz(sp)
Distortion: Less than 4%
Wow and flutter: Less than 0.35%(sp)

Other

Control S IN: Minijack



RM-V200

Wired/wireless remote control unit

- VTR operation: STOP/PLAY/REC/PAUSE/FWD SEARCH/REW SEARCH/FF/REW/EJECT/POWER ON & OFF
- High speed rewind button/2 × speed playback/ Frame advance operations for SVO-1410/1610/1300/1250, SVP-1210/1000A
- Either Control-S or Control P control signal selectable

Supplied accessories:	Size AA battery (x2) Control S cable (3m) Control P cable (1.5m) Operation manual
Weight:	105g (3 oz) excluding batteries
Dimensions:	65 (W) × 18 (H) × 150 (D)mm (2 ⁵ / ₈ × 23/ ₃₂ × 6 inches)
Power requirements:	DC 3V
Operating temperature:	5 to 45°C (41 to 113°F)
Control signal:	Control S (SIRCS) Control P (Inverted SIRCS)



VIDEOCASSETTE
RECORDERS

5-5 VHS Hi-Fi duplicators

SVO-965

VHS Hi-Fi

VHS Hi-Fi duplicator for recording/playback

•Provides both recording and playback modes •High concentration of Silicon is incorporated in the lower drum for improved wear durability •Long-life video Hi-Fi head •High quality picture and sound by wide video/audio track design •Quality construction and durable mechanism for highly reliable operation •Low power consumption of 25W •Compact size and lightweight •Control P IN/OUT connectors for loop-through connection •Loop-through audio/video connectors for simpler system connection •Control S IN connector for VTR operation checking •Auto head cleaner (rotary/stationary) •Automatic check function for reliable recording results (operated from SVRM-901/SVRM-960) •Data set function: VTR ID SET, ID code REC ON/OFF, ID code display ON/OFF, video AGC ON/OFF, audio limiter ON/OFF, Hi-Fi REC ON/OFF etc. •Auto off function for technical difficulties •Convenient front test terminals for easy technical testing •Operation status indicator: TAPE RUN, REC, EJECT/AUTO OFF

Supplied accessories: AC power cord
Instruction manual

Specifications

General

Weight: 7kg (15 lb 7 oz)
Dimensions: 270(W) × 132(H) × 370(D)mm
(10³/₄ × 5¹/₄ × 14⁵/₈ inches)
Power requirements: AC 120V, 60Hz
Power consumption: 27W
Storage temperature: -20 to 60°C (-4 to 140°F)
Operating temperature: 5 to 40°C (41 to 104°F)
Tape speed: 33.35mm/s (SP mode)
F FWD and REW time: Within 2.5min (with Sony T-120 tape)
Videocassette: VHS standard cassette tapes

System

Video signal system: EIA standard/NTSC color
Video recording system: Rotary two-head Azimuth recording, VHS standard
Luminance: FM recording
Color signal: Converted subcarrier phase shift recording
Audio recording system: Hi-Fi audio: Rotary two-head helical scanning system
Normal audio: Stationary head

Video

Input: Composite video: BNC with loop-through output, 1Vp-p, 75Ω switchable, unbalanced, sync negative
Output: Composite video: BNC, 1Vp-p, 75Ω, unbalanced, sync negative
Horizontal resolution: More than 240TV lines
S/N ratio: 45dB

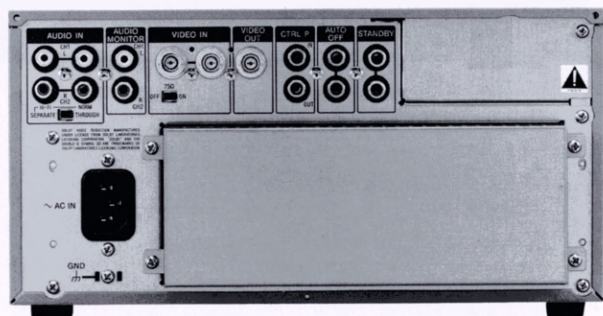
Audio

Input : SEPARATE/THROUGH switch selectable*
Hi-Fi (CH-1/CH-2): Phono (×2)
Normal (CH-1/CH-2): Phono (×2)
Audio level: -10dBu, 47kΩ, unbalanced
Output: Phono (×2)
Audio level: -10dBu, 47kΩ, unbalanced
S/N ratio (Dolby off): 43dB (Normal audio)
Dynamic range: Better than 90dB (Hi-Fi audio)
Frequency response: Normal: 50Hz to 10kHz
Hi-Fi: 20Hz to 20kHz
Audio level adjustment: Manual (4ch)
Limiter on/off selectable (Normal audio)

Remote control

Control S : IN: Mini jack
Control P : IN: Phono
OUT: Phono

* When switch is in THROUGH position, loop-through output is available.



SVO-915

VHS Hi-Fi

VHS Hi-Fi duplicator for recording

- Provides recording mode only for a large size duplication system
- High concentration of Silicon is incorporated in the lower head drum scanner for improved wear durability
- Long-life video/Hi-Fi head
- Quality construction and durable mechanism for highly reliable operation
- High quality picture and sound by wide video/audio track design
- Low power consumption of 25W
- Compact and light-weight
- Control P IN/OUT connectors
- Loop-through audio/video connectors for simple system connection
- Control S IN connector for VTR operation checking
- Data set function: VTR ID SET, ID code REC ON/OFF, ID code display ON/OFF, video AGC ON/OFF, audio limiter ON/OFF, Hi-Fi REC ON/OFF, Dolby NR ON/OFF etc.
- Auto head cleaner (rotary/stationary)
- Auto off function for technical difficulties
- Convenient front test terminals for easy technical testing
- Operation status indicator: TAPE RUN, REC, EJECT/AUTO OFF
- Audio monitor out for checking the audio recording level

Supplied accessories: AC power cord
Instruction manual

Specifications

General

- Weight: 7kg (15 lb 7 oz)
Dimensions: 270(W) × 132(H) × 370(D)mm
(10³/₄ × 5¹/₄ × 14⁵/₈ inches)
Power requirements: AC 120V, 60Hz
Power consumption: 25W
Storage temperature: -20 to 60°C (-4 to 140°F)
Operating temperature: 5 to 40°C (41 to 104°F)
Tape speed: 33.35mm/s (SP mode)
F FWD and REW time: Within 2.5min (with Sony T-120 tape)
Videocassette: VHS standard cassette tapes

System

- Video signal system: EIA standard/NTSC color
Video recording system: Rotary two-head Azimuth recording, VHS standard
Luminance: FM recording
Color signal: Converted subcarrier phase shift recording
Audio recording system: Hi-Fi audio: Rotary two-head helical scanning system
Normal audio: Stationary head

Video

- Input: Composite video: BNC with loop-through output,
1Vp-p, 75Ω switchable, unbalanced, sync negative
Horizontal resolution: More than 240TV lines
S/N ratio: 45dB

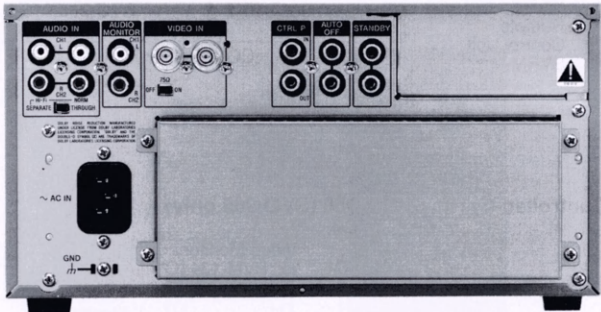
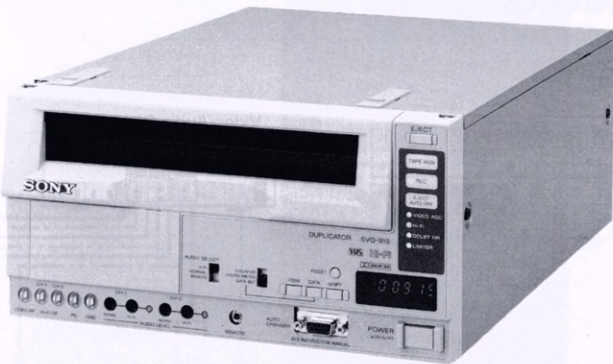
Audio

- Inputs: SEPARATE/THROUGH switch selectable*
Hi-Fi (CH-1/CH-2): Phono (×2)
Normal (CH-1/CH-2): Phono (×2)
Input level: -10dBu, 47kΩ, unbalanced
Outputs: Phono (×2)
Output level: -10dBu, 47kΩ, unbalanced
S/N ratio (Dolby off): 43dB (Normal audio)
Dynamic range: Better than 90dB (Hi-Fi audio)
Frequency response: Normal: 50Hz to 10kHz
Hi-Fi: 20Hz to 20kHz
Audio level adjustment: Manual (4ch)
Limiter on/off selectable (Normal audio)

Remote control

- Control S : IN: Mini jack
Control P : IN: Phono
OUT: Phono

* When switch is in THROUGH position, loop-through output is available.

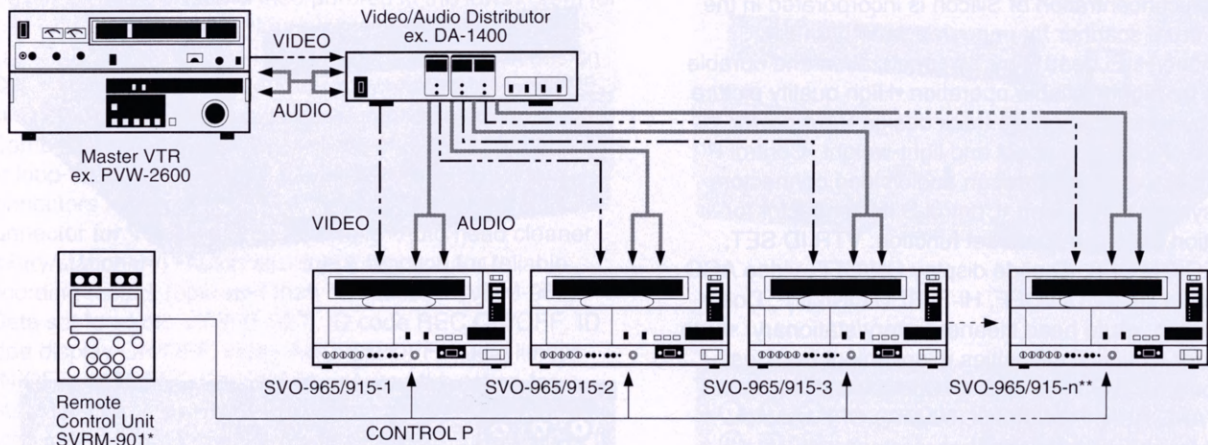


VIDEOCASSETTE
RECORDERS

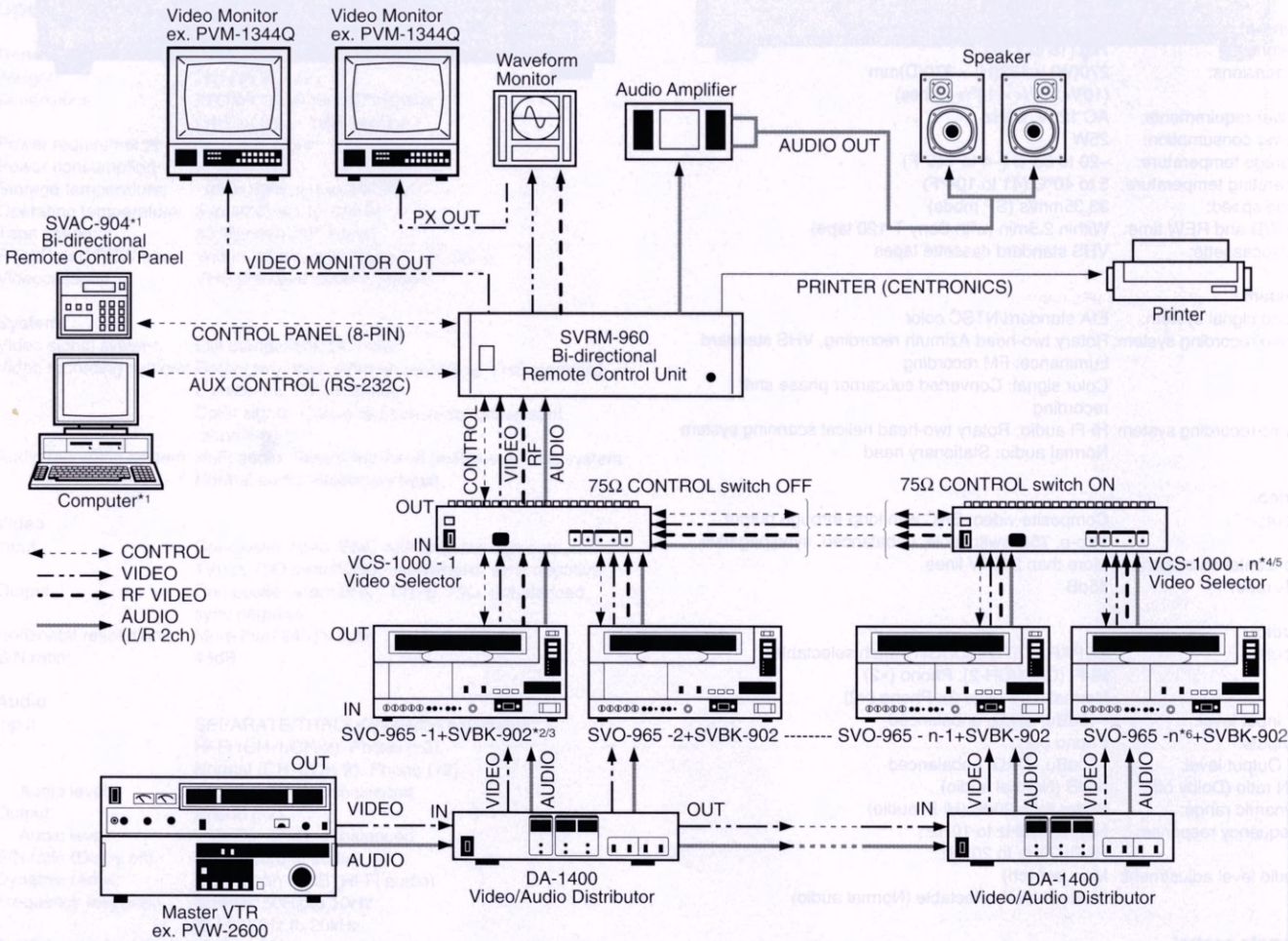
5-5 VHS Hi-Fi duplicators

System Configuration

• Controlled by the SVRM-901



• Controlled by the SVRM-960 (SVO-965 only)

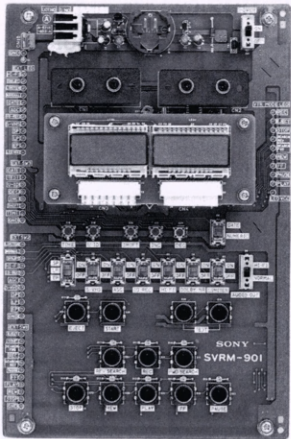


5-6 VHS duplicator accessories

SVRM-901

Serial remote control board

- Duplication VTR control capability: up to 1,000 VTRs
- Individual VTR status monitoring capability
- System management capability
- VTR mode set up capability: VTR ID code REC ON/OFF, video AGC ON/OFF, Hi-Fi Audio ON/OFF, audio limiter ON/OFF, etc.
- Auto Check function for examining secure video/audio recording
- RS-232C interface for computer control operation
- Centronics compatible printer interface



VIDEOCASSETTE
RECORDERS

RM-V200 (Wired only)

Remote control unit

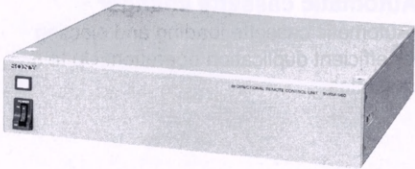
- For simple control of one VTR
- Equipped with control P/S select switch
- Duplication control capability via control P output



SVRM-960 (SVO-965 only)

Bi-directional remote control unit

- Control P out connectors for controlling entire duplication VTRs: up to 2,000 VTRs
- VTR mode set up capability: VTR ID code REC ON/OFF, video AGC ON/OFF, Hi-Fi Audio ON/OFF, audio limiter ON/OFF, etc.
- Auto Check function for examining secure video/audio recording



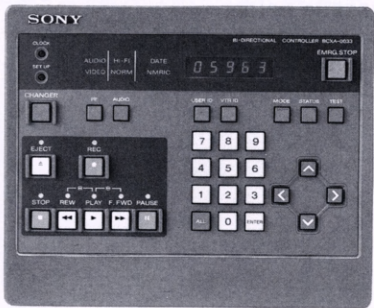
Weight: 8.0kg (17 lb 10 oz)
Dimensions: 424 × 88 × 350mm
(16³/₄ × 3¹/₂ × 13⁷/₈ inches)

SVAC-904 (SVO-965 only)

Bi-directional remote control panel for SVRM-960

- To operate a duplication system with the SVRM-960 Bi-directional remote control unit

Weight: 0.8kg (1 lb 12 oz)
Dimensions: 180(W) × 53(H) × 220(D)mm
(7¹/₈ × 2¹/₈ × 8³/₄ inches)

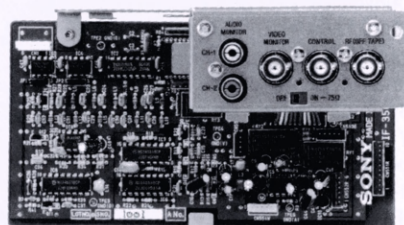


5-6 VHS duplicator accessories

SVBK-902 (SVO-965 only)

Bi-directional interface board

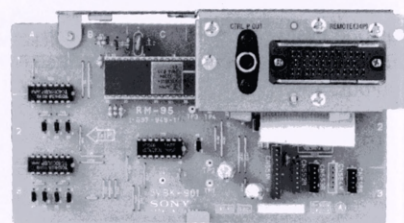
- To enable two way communication between duplication VTRs and the SVRM-960



SVBK-901

34-pin parallel interface board

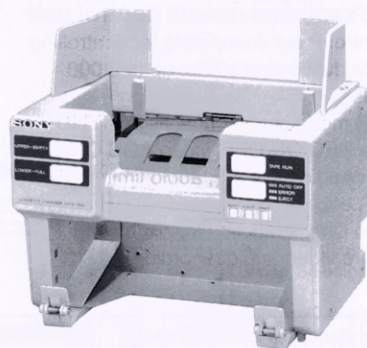
- To meet 34-pin based control system
- Control P serial control signal output connector



SVCC-960

Automatic cassette changer

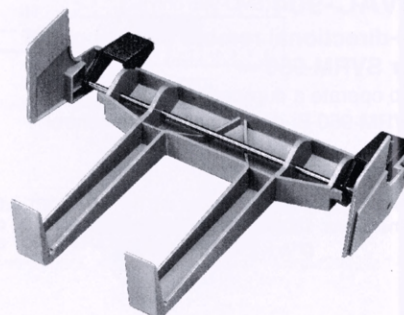
- Automatic cassette loading and ejecting for efficient duplication operation: Up to 5 cassettes



SVAC-902

Cassette holder

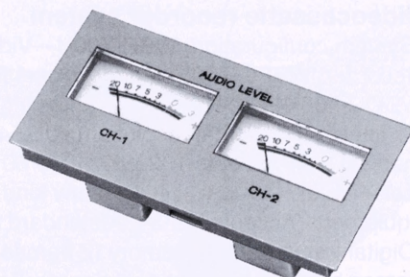
- To hold cassettes ejected by the SVCC-960
- Using with the SVCC-960



SVAC-901

Audio meter

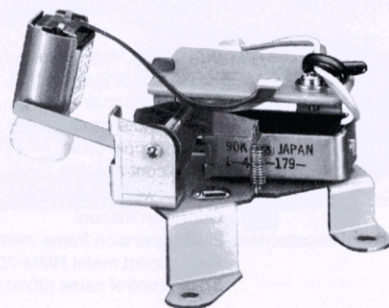
•For monitoring audio recording level



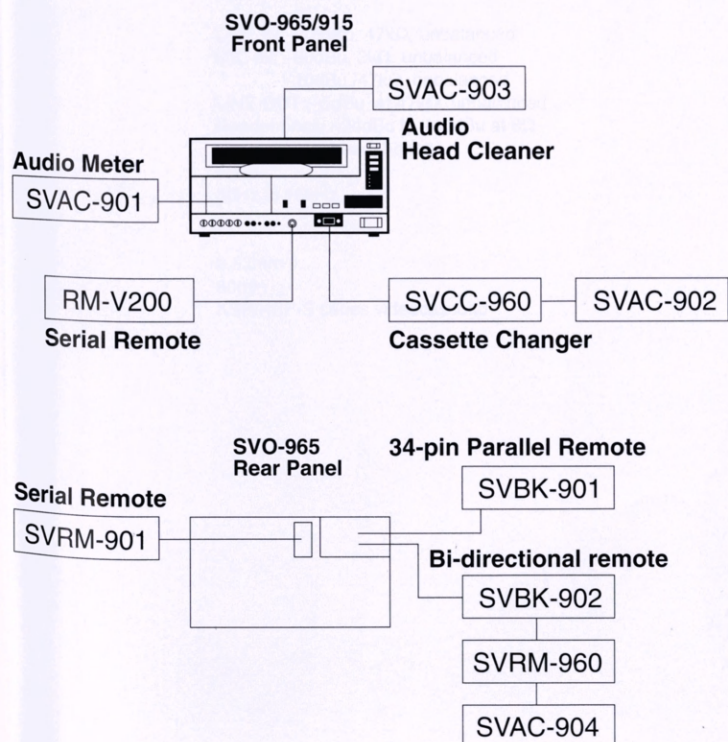
SVAC-903

Audio head cleaner

•For cleaning a stationary audio head in the SVO-965/915



Optional Accessory Allocations



WBS-700H

Videocassette recorder system

- System configuration; WBR-700H—Videocassette Recorder, WBPC-700H—Video Signal Processor, WBOU-700H—Operation Unit
- Excellent image quality (650 TV lines of Horizontal resolution)
- UL-544 compliance for medical use
- Accepts 1023/60, 1049/60 and 1125/60 signals (selectable)
- Compatibility with any kind of medical imaging equipment (Accepts RS-343A standard video signals)
- Digital frame or field memory (2 frames as standard, 4 frames by adding an optional board)
- Forward/Reverse Variable speed replay—Shuttle Dial for high speed picture search (the DT Head provides noiseless playback pictures at the range of -1 to +2 times normal speed), Jog Dial for precise frame by frame picture search
- Instant review
- Instant recording (immediate synchronization with the signal from X-ray system controller)
- Cassette based operation (which ensures easy handling)
- Built-in RS-232C interface port

Supplied accessories: BCT-20MA Metal particle tape
12-pin Dubbing cable (x2)
36-pin TBC control cable
9-pin remote control cable
Power supply cable
37-pin control cable
Main power supply cable
Operation manual

Optional accessories: 2MB expansion frame memory BKWB-700H
Rack mount metal RMM-700H
37-pin control cable (20m) RCC-700H

Specifications

General

WBR-700H

Type: Videocassette Recorder
Dimensions: 427(W) × 237(H) × 520(D)mm
(16⁷/₈ × 9³/₈ × 20¹/₂ inches)

Weight: 25kg (55 lb 2 oz)

WBPC-700H

Type: Video Signal Processor
Dimensions: 424(W) × 221(H) × 550(D)mm
(16³/₄ × 8³/₄ × 21³/₄ inches)

Weight: 35kg (77 lb 3 oz)

WBOU-700H

Type: Operation Unit
Dimensions: 390 × 66 × 265mm
(15³/₈ × 2⁵/₈ × 10¹/₂ inches)

Weight: 2.3kg (5 lb 1 oz)

WBS-700H

General

Video recording system: Rotary 4-head helical scan system,

Luminance: FM recording

Video signal system: 1023/60, 1049/60, 1125/60 (scanning lines/field frequency)

Operating temperature: 5 to 40°C (41 to 104°F)

Storage temperature: -20 to 60°C (-4 to 140°F)

Power requirements: AC 100 to 120V, 50 to 60Hz

Power consumption: 380W

Tape speed: 11.86cm/s

REC/Playback time: Less than 94 minutes with BCT-90MLA

Fast forward/Rewind time:

Less than 3 minutes with BCT-90MLA

Wow and flutter: 0.1% rms (unweighted)

Search speed:

SHUTTLE STILL, 1/30, 1/10, 1/5, 1/2, 1, 2, 5 and 24 times normal speed

JOG -1 to +1 times normal speed, forward and reverse

Dynamic tracking range: -1 to +2 times normal speed (noiseless playback)

Freeze pictures: 2-frame memory (4 frames with optional BKWB-700H), 8-bit gray depth/pixel

Video signals

Bandwidth: 30Hz to 13MHz (-6dB)

S/N ratio: 41dB

Horizontal resolution: 650TV lines

Input: BNC; 1.0Vp-p, 75Ω

Output: BNC; 1.0Vp-p, 75Ω

Audio signals

Frequency response: 50Hz to 15MHz ±1dB

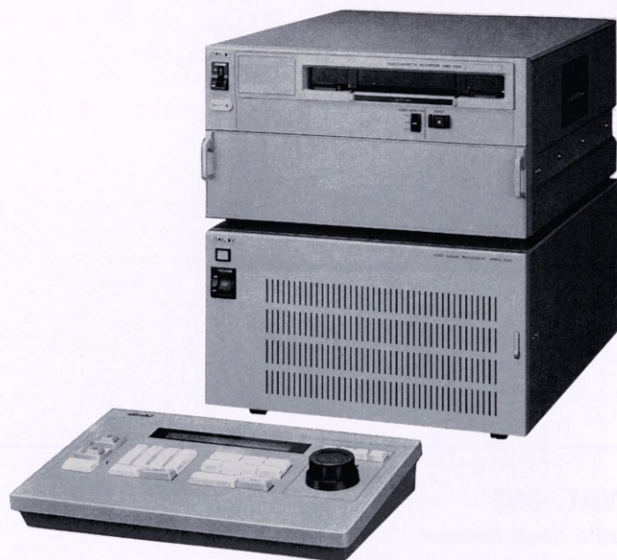
S/N ratio: More than 50 dB (at 3% distortion level)

Input: LINE IN; Low -60dBu/600Ω or 10kΩ

High +4dBu/600Ω or 10kΩ

Microphone; -60dBu/10kΩ

Output: AUDIO MONITOR; +4.0dBu/600Ω



VO-9600H

High resolution B/W videocassette recorder

- High quality picture reproduction by utilizing the SP U-matic technology
- Multiple scanning system for universal applications
- Clear still picture
- REC standby function for immediate recording operation
- High speed picture search in the range of ± 5 times normal speed by a Search Dial
- Control S IN and Sony 33-pin remote interface to meet a wide range of applications
- Quick start function for immediate VTR operation
- Three video out connectors for easy system expansion
- Audio recording capability
- Real time counter
- Compliance with medical safety regulations: UL-544 and IEC-601-1

Supplied accessories: KSP-60 SP U-matic videocassette
Instruction manual
AC power cord

Specifications

General

Recording system: Two rotary heads helical scanning system
Scanning system (lines/Hz): 525/60, 625/50, 1023/60, 1049/60, 1125/60, 1249/50 selectable
Operating temperature: 5 to 40°C (41 to 104°F)
Power requirements: AC 220 to 240V
Power consumption: Less than 70W
Dimensions: 424 (W) x 192 (H) x 544 (D)mm
(16³/₄ x 7⁵/₈ x 21¹/₂ inches)
Weight: 7.5kg (16 lb 9 oz)

Video signal

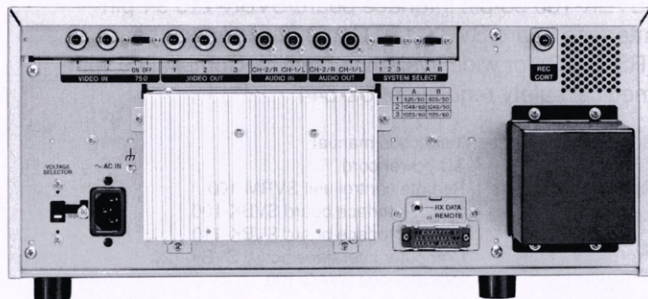
Input: 1.0Vp-p, 75Ω (with termination switch), sync negative
Output: 1.0Vp-p, 75Ω, sync negative
S/N ratio & Horizontal resolution:
46dB, 480 lines (525/60)
43dB, 480 lines (625/50)
46dB, 240 lines (1023/60)
46dB, 240 lines (1049/60)
46dB, 220 lines (1125/60)
43dB, 240 lines (1249/50)

Audio signal

Input: LINE IN: -10dBu, 47kΩ, unbalanced
MIC IN: -60dBu, 3kΩ, unbalanced
-10dBu, 47kΩ, unbalanced
Output: LINE OUT: -5dBu, at 47kΩ, unbalanced
Headphones: -24dBu to -46dBu at 8Ω headphones
S/N ratio: 48dB
Frequency response: 50Hz to 15kHz

Tape transport

Tape speed: 9.53mm/s
REC/PB time: 60min
Videocassette: KSP/KSP-S series videocassette



SVO-9500MD**S-VHS videocassette recorder**

•High quality picture and sound by S-VHS format and wide video/audio track design •Digital Chroma Noise Reducer (CNR) to provide highly stable picture •Clear and crisp freeze pictures in either frame or field mode thanks to built-in digital frame memory •Quality construction and durable mechanism for highly reliable operation •Quick response mechanism for immediate operation • ± 10 times picture search •Blank search function for quick searching of blank part on the tape •Index search function for rapid point location •Programmed operation •Tape remain indicator to show the amount of tape remaining •Auto head cleaner •Compact size and lightweight •Hi-Fi stereo audio recording system •Hi-Fi ON/OFF switch •VTR mode setting menu •SVRM-100 optional remote control unit •SVBK-100 33-pin interface board/SVBK-110 34-pin interface board/SVBK-120 Computer interface board (RS-232C) for wide system versatility •Compliance with medical safety regulation: UL-544

Supplied accessories: Instruction manual

AC power cord

Optional accessories: Remote control unit SVRM-100

33-pin interface board SVBK-100

34-pin interface board SVBK-110

Computer interface board SVBK-120

Indicator unit SVAC-100

Specifications**General**

Video recording system: Two rotary heads helical scanning system

Video signal system: EIA monochrome/NTSC color

Operating temperature: 5 to 40°C (41 to 104°F)

Power requirements: AC 120V

Power consumption: 55W

Dimensions: 270 (W) \times 144 (H) \times 370 (D)mm
(10 $\frac{3}{4}$ \times 5 $\frac{3}{4}$ \times 14 $\frac{5}{8}$ inches)

Weight: 12kg (26 lb 7 oz)

Video signal

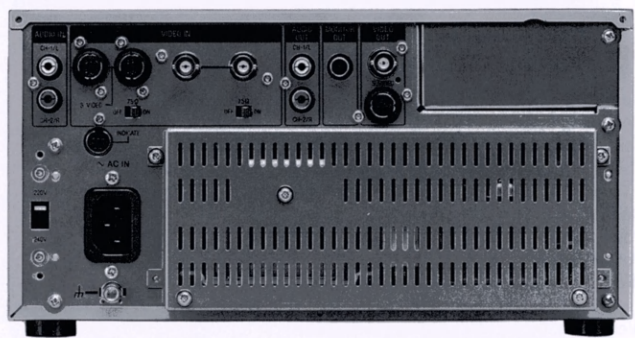
Input: BNC: 1.0Vp-p, 75 Ω , sync negative
S-VIDEO: Mini DIN 4-pin
Y: 1.0Vp-p, 75 Ω , C: 0.286Vp-p, 75 Ω
Output: BNC: 1.0Vp-p, 75 Ω , sync negative
S-VIDEO: Mini DIN 4-pin
Y: 1.0Vp-p, 75 Ω , C: 0.286Vp-p, 75 Ω
S/N ratio: Better than 46dB

Audio signal

Input: LINE IN: CH-1/CH-2: -10dBu, 47k Ω , unbalanced
Microphone: CH-2: -60dBu, 3k Ω , unbalanced
Output: LINE OUT: CH-1/CH-2: -10dBu, 1k Ω , unbalanced
S/N ratio: 40dB (standard)
Dynamic range: Better than 90dB (Hi-Fi)
Frequency response: 15Hz to 15kHz (standard), 20Hz to 20kHz (Hi-Fi)

Tape transport

Tape speed: 33.35mm/s
F FWD and REW time: 2.5min (MQST-120)
Videocassette: S-VHS cassette tapes



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DXC-537A series	66	
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2. Monochrome video camera		
AVC-D7	74	
3. Camera accessories		77
4. Lenses		90

Intercom	Miniature jack
Earphone	Mini jack
DC in	XLR-type 4-pin
VP	DN 5-pin
HEATER	10-pin
LENS	12-pin
MIC IN	XLR-type 3-pin
VIDEO OUT	BNC-type
VIDEO IN	BNC-type
VT/CU/CM	Sony 2-pin 28-pin

Power supply	AC 100-240V
Power consumption	10W (without VTR-A-537)
Operating temperature	-10 to 55°C (14 to 132°F)
Weight	3.5kg (7.7lb) for camera base only
	3.0kg (6.6lb) for camera CA-537



effectively reduces anomalous diagonal edges appeared on highly contrasted objects •Variable Speed Electronic Shutter •Clear Scan function for shooting computer displays without horizontal bands appearing across display screen •GCC (Dynamic Contrast Control) circuit can reproduce 800% dynamic range •EVS (Enhanced Vertical Definition System) realizes a remarkable vertical resolution of 450TV lines •ATW (Auto Tracking White Balance) function automatically adjusts white balance when lighting conditions change •Programmable gain mode allows precise gain selection from 8 gain values •Turbo gain mode of 3000% effective for shooting in extremely low-light situations •Three modes of matrix: STD (Standard), H.3AT (High Saturation) and FL (Fluorescent Light) are provided to change the chroma saturation and hue •Three mode auto iris system: STD (Standard), BACK L (Back Light) and SPOT L (Spot Light) allows an appropriate luminance level in every situation •Supplies a 1kHz audio reference signal simultaneously with the color bar signal •Date and time can be superimposed on the video signal •Can be coupled directly with the FVY-7A for high quality component acquisition or with the EVV-8000 for handy operation •Can be combined with S-VHS BVV-5 via the CA-51 •Can be combined with S-VHS recorder from Panasonic or JVC via the CA-512 or CA-513 •When combined with CA-537, 28-pin connector on camera adaptor provides signal output in YR-YB-Y-VBS, Y/C and RGB forms for connection with various equipment •The DXF-301 viewfinder achieves a remarkable 600TV lines of horizontal resolution •Compact size, lightweight and low power consumption •CM-510 external microphone and low-frequency cut capability for high quality sound •The VCL-9188YA aspherical lens allows a wider angle of view and reduced ghost and flare •Safety Zone and Center Marker indications in viewfinder •Extended system versatility with optional CA-352A/352B Camera Adaptor, RM-M70 Remote Control Unit and CCU-M5MT

Specified accessories:	Wind screen (supplied with DXC-537A/AL only)
	Lens mount cap
	Chim for range from infinity adjustment
	Optical viewfinder
Specifications	
Image device	2/3-inch Internode-Transfer CCD (9.3)
	815(H) x 615(V) total picture elements
	185(H) x 135(V) effective picture elements
Electronic viewfinder	1.3 inch monochrome (except DXC-537A/AL)
Lens	F1.5, 9.5x Variable zoom lens with auto iris/motor
	Resolution (DXC-537A/AL)
	Bayonet-mount
	1/2" CCD color system
Signal system	120TV lines
Horizontal resolution	120TV lines
Minimum illumination	12 lx min (F1.5 - 1800)
	0.3 lx min (F1.5 - 1800) (TURBO Gain)

1 Color video cameras

DXC-537A series

3-chip CCD color video camera

•Excellent picture quality provided by use of three Sony 2/3-inch IT Hyper HAD (Hole Accumulated Diode) sensors
•750TV lines of horizontal luminance resolution thanks to the high density CCD chips (420,000 total picture elements /380,000 effective picture elements), Sony's original spatial offset technology and improved electronic circuitry •The HAD sensor structure in combination with advanced electronic circuitry allows an excellent S/N ratio of 62dB •The Hyper HAD sensor's wide photo sensing sites and OCL (On-Chip-Lens) layer result in an extremely high sensitivity of F8.0
•Smear almost negligible due to the HAD sensor structure and OCL layer of the Hyper HAD sensor •The 2-dimensional optical low pass filter reduces aliasing •The detail limiter effectively reduces unsmooth diagonal edges appeared on highly contrasted objects •Variable Speed Electronic Shutter
•Clear Scan function for shooting computer displays without horizontal bands appearing across display screen •DCC (Dynamic Contrast Control) circuit can reproduce 600% dynamic range •EVS (Enhanced Vertical Definition System) realizes a remarkable vertical resolution of 450TV lines
•ATW (Auto Tracing White Balance) function automatically adjusts white balance when lighting conditions change
•Programmable gain mode allows precise gain selection from 8 gain values •Turbo gain mode of 30dB is effective for shooting in extremely low-light situations •Three modes of matrix- STD (Standard), H.SAT (High Saturation) and FL (Fluorescent Light) are provided to change the chroma saturation and hue •Three mode auto iris system- STD (Standard), BACK L (Back Light) and SPOT L (Spot Light) allows an appropriate luminance level in every situation
•Supplies a 1kHz audio reference signal simultaneously with the color bar signal •Date and time can be superimposed on the video signal •Can be coupled directly with the PVV-1A for high quality component acquisition or with the EVV-9000 for handy operation •Can be combined with the BVV-5 via the CA-511 •Can be combined with S-VHS recorders from Panasonic or JVC via the CA-512 or CA-513 •When combined with CA-537, 26-pin connector on camera adaptor provides signal output in Y/R-Y/B-Y, VBS, Y/C and RGB forms for connection with various equipment
•The DXF-501 viewfinder achieves a remarkable 600TV lines of horizontal resolution •Compact size, lightweight and low power consumption •ECM-670 external microphone and low-frequency-cut capability for high quality sound •The VCL-916BYA aspherical lens allows a wider angle of view and reduced ghost and flare •Safety Zone and Center Marker indications in viewfinder •Extended system versatility with optional CA-325A/325B Camera Adaptors, RM-M7G Remote Control Unit and CCU-M5/M7

Supplied accessories: Wind screen (supplied with DXC-537AK/AL only)
Lens mount cap
Chart for flange focal length adjustment
Operating Instructions

Specifications

General

Image device: 2/3-inch Interline-Transfer CCD (×3),
818(H) × 513(V) total picture elements
768(H) × 493(V) effective picture elements
Electronic viewfinder: 1.5-inch monochrome (except DXC-537AH)
Lens: F1.8, 9 to 144mm zoom lens with auto iris/macro mechanism (DXC-537AK)
Lens mount: Bayonet-mount
Signal system: NTSC color system
Horizontal resolution: 750TV lines
Minimum illumination: 13 lx with F1.8, +18dB
3.3 lx with F1.8, +30dB (TURBO GAIN)



Camera adaptor is optional

Sensitivity: F8.0 at 2000 lx
Sync system: Internal or external selectable
S/N ratio: 62dB
Power requirements: DC 12V
Power consumption: 10.5W (without VF/CA-537)
Operating temperature: -10 to 45°C (14 to 113°F)
Weight: 2.3kg (5 lb 1 oz, for camera head only)
3.6kg (7 lb 15 oz, with the CA-537)

Inputs/outputs

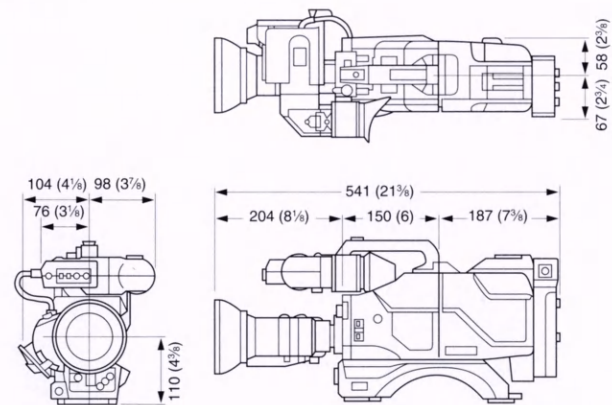
VTR/CCU/CMA: Sony Z-type, 26-pin
VIDEO OUT: BNC-type
GENLOCK: BNC-type
MIC IN: XLR-type, 3-pin
LENS: 12-pin
REMOTE: 10-pin
VF: DIN 8-pin
DC IN: XLR-type, 4-pin
EARPHONE: Mini jack
INTERCOM: Mini intercom jack

Composition	Model	DXC-537AK	DXC-537AL	DXC-537AH
Color video camera head		○	○	○
Zoom lens VCL-916BYA		○	Option	Option
Viewfinder DXF-501		○	○	Option
Microphone ECM-670		○	○	Option
Microphone holder CAC-12		○	○	Option
Microphone cable EC-0.3C2		○	○	Option
Carrying case LC-421		○	○	Option
Tripod adaptor VCT-14		○	○	Option

○ : Supplied

Dimensions

With optional camera adaptor



Unit: mm (inch)

1 Color video cameras

DXC-327A series

3-chip CCD color video camera

•The most suitable camera for operation with the EVV-9000 •Excellent picture quality provided by use of three Sony 1/2-inch IT Hyper HAD (Hole Accumulated Diode) sensors •700TV lines of horizontal luminance resolution thanks to the high density CCD chips (410,000 total picture elements/380,000 effective picture elements) and Sony's original spatial offset technology •The HAD sensor structure in combination with advanced electronic circuitry allows an excellent S/N ratio of 62dB •The Hyper HAD sensor's wide photo sensing sites and OCL (On-Chip-Lens) layer result in an extremely high sensitivity of F8.0 •Variable Speed Electronic Shutter improves dynamic resolution when shooting moving objects •2-line image enhancer for crisp image. •Modular design allows choice of combo stand-alone or multi-camera use •Can be coupled directly with the PVV-1A for high quality component acquisition •Can be combined with the BVV-5 via the CA-511 Camera Adaptor •Can be combined with S-VHS recorders from Panasonic or JVC via the CA-512 or CA-513 Camera Adaptor •When combined with CA-537, 26-pin connector on camera adaptor provides signal output in Y/R-Y/B-Y, VBS, Y/C and RGB forms for connection with various equipment •The DXF-501 quick start viewfinder needs no preheat time and adopts a new diopter mechanism for easier diopter adjustment •Compact size, lightweight, and low power consumption •VCL-712BX cableless 12 × zoom lens •Convenient built-in microphone •Safety Zone and Center Marker indications in viewfinder •Built-in character generator can generate letters and numbers for titles and dates •5 step auto iris override (+1F stop/+0.5F stop/Preset/-0.5F stop/-1.0F stop) •Convenient gain-up function (0/+9/+18dB) •Zebra video level indication •Two memory white balance system •ABL (Automatic Black Level) function •RM-M7G remote connector on camera head for remote control in any configuration •Extended system versatility with optional CA-325A/325B Camera Adaptors, RM-M7G Remote Control Unit, and CCU-M7/M5

Specifications

Image device:	1/2-inch Interline-Transfer CCD (×3), 811 × 508 (H/V) total picture elements 768 × 494 (H/V) effective picture elements
Electronic viewfinder:	1.5-inch monochrome (except DXC-327AH)
Lens:	F1.4, 7.5 to 90mm zoom lens with auto iris/macro mechanism (DXC-327AK)
Lens mount:	Bayonet-mount
Signal system:	NTSC color system
Horizontal resolution:	700TV lines
Minimum illumination:	7.5 lx with F1.4, +18dB
Sensitivity:	F8.0 at 2000 lx
Sync system:	Internal or external selectable
S/N ratio:	62dB
Power requirements:	DC 12V
Power consumption:	8.0W (without VF/CA-537)
Operating temperature:	-5 to 45°C (23 to 113°F)
Weight:	2.0kg (4 lb 6 oz, for camera head only) 3.3kg (7 lb 4 oz, with the CA-537)
INPUT/OUTPUT	
VTR/CCU/CMA:	Sony Z-type, 26-pin
VIDEO OUT:	BNC-type
GENLOCK:	BNC-type
MIC IN:	XLR-type, 3-pin
LENS:	Hot-shoe type or 6-pin (for 2/3-inch lens)
REMOTE:	10-pin
VF:	DIN 8-pin
DC IN:	XLR-type, 4-pin
EARPHONE:	Mini jack
INTERCOM:	Mini intercom jack

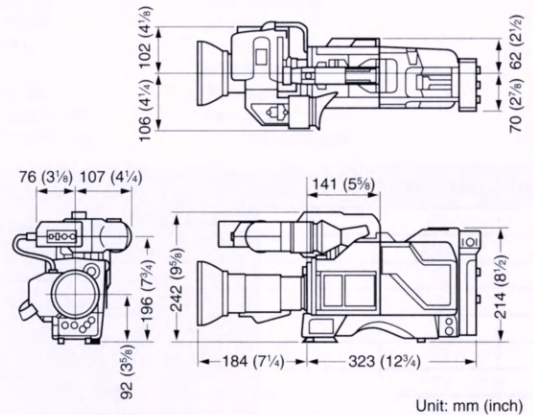


Composition	Model	DXC-327AK	DXC-327AL	DXC-327AH
Color video camera head		○	○	○
Zoom lens VCL-712BX		○	Option	Option
Viewfinder DXF-501		○	○	Option
Tripod adaptor VCT-12		○	○	Option
Carrying case LC-420		○	○	Option

○ : Supplied

Dimensions

With optional camera adaptor



Product configuration

DXC-327AK



DXC-327AL



DXC-327AH



1 Color video cameras

DXC-930

3-chip CCD color video camera

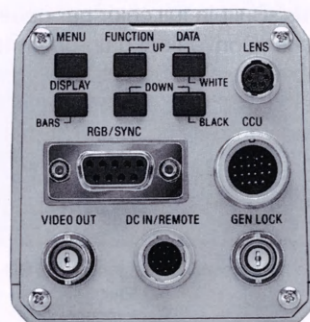
- Multi-purpose 3-CCD compact camera for various industrial video applications
- High density three 1/2-inch IT Hyper HAD sensor CCDs offer superior picture quality:

- Remarkably high horizontal resolution of 720TV lines
- High sensitivity of F5.6 at 2000 lx
- Excellent signal-to-noise ratio of 58dB
- Excellent color reproduction

- Various built-in camera function controls
- Remote control from the optional RM-930 Remote Control Unit or CCU-M5/M7 Camera Control Unit
- Control menu can be displayed in characters on the monitor
- Digital control CCD IRIS function automatically adjusts the incoming light level
- AGC or 1dB step Gain control
- Automatic or manual (R/B gain selection) white balance control
- Minutely controlled electronic shutter speed—Manual speed selection (1H or 1 frame step) in addition to the conventional 8-step speed selection
- RGB output via a 9-pin D-sub connector
- Y/C or VBS output can be selected from the 9-pin D-sub connector
- Composite signal output via a BNC connector
- Genlock capability with VBS or BS signals
- Accepts 38 Bayonet-mount lenses with a hot-shoe connection
- Optional CMA-D2 can be used for power supply



Lens is optional



Supplied accessories: Lens mount cap

Operation manual

Optional accessories: Camera adaptor CMA-D2

Remote control unit RM-930

Camera control unit CCU-M5

Camera control unit CCU-M7

DC cable (5/10/25/50/100m)

CCDC-5/10/25/50A/100A

12-pin multi-core cable (2/5/10/25m)

CCMC-12P02/05/10/25

RGB cable CCXC-9DD

(5m, 9-pin D-sub ↔ 9-pin D-sub)

RGB cable CCXC-9DB (5m, 9-pin D-sub ↔ 5BNCs)

RGB cable CCMC-9DS

(5m, 9-pin D-sub ↔ 4BNCs, DIN 4-pin)

Camera cable CCMC-9DSMN

(5m, 9-pin D-sub ↔ 3BNCs, AUDIO MINI JACK, DIN 4-pin for MPU-F100A)

Camera cable CCMC-1210P3

(3m, 12-pin ↔ 10-pin, for connecting the CCU-M5/M7 with the RM-930)

Camera cable CCTQ-3RGB

(3m, 20-pin ↔ 14-pin, for CCU-M5)

Camera cable CCTZ-3RGB

(3m, 20-pin ↔ 26-pin, for CCU-M5/M7)

Camera cable CCTZ-3YC

(3m, 20-pin ↔ 26-pin, for CCU-M5/M7)

Microscope adaptor with auto iris MVA-40

Microscope adaptor MVA-41A

Microscope adaptor (one way) MVA-265

Coupler for NIKON microscopes except the

SMZ-10 series MVAC-33-N

Coupler for NIKON SMZ-10 series microscopes

MVAC-33-SM

Coupler for OLYMPUS microscopes

MVAC-33-O

Manual zoom lens VCL-707BXM

(7.5 to 52.5mm, F1.6)

Remote zoom lens VCL-712BXEA

(7.5 to 90mm, F1.4)

Remote zoom lens VCL-716BXEA

(7 to 112mm, F1.4)

Lens mount:

38 Bayonet mount

Sensitivity:

2000 lx with F5.6

Minimum illumination:

15 lx (F1.4, +18dB)

Gain Control:

AGC/0 to 18dB (1dB step) switchable

Electronic shutter:

OFF (1/60s)/STEP/MANU switchable

STEP: 1/100 (FL), 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000(s)

MANU: 255 to 1 (frames) (for field mode), 256 to 2 (frames) (for frame mode), OFF, 260/525 ~ 1/525(H)

Phase control:

H/SC phase control

CCD IRIS control:

ON/OFF switchable

White balance:

AUTO/MANUAL (R/B gain control) selectable

Signal-to-noise ratio:

58dB (Gamma:OFF, DTL:OFF)

Video out:

VBS: 1.0Vp-p, 75Ω, sync negative

RGB: 0.7Vp-p, 75Ω

Y/C: Y: 1.0Vp-p, 75Ω

C: 0.286Vp-p, 75Ω

Operating temperature:

-5 to 45°C (23 to 113°F)

Storage temperature:

-20 to 60°C (-4 to 140°F)

Power requirements:

DC 12V

(supplied from CMA-D2 or CCU-M5/M7)

Power consumption:

7.8W

Weight:

Approx. 670g (1 lb 8 oz)

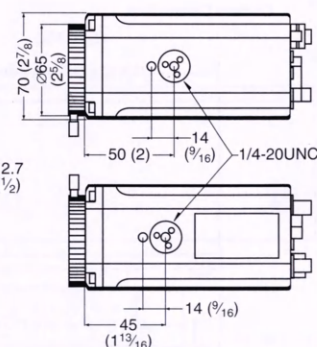
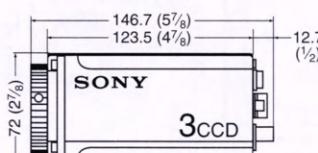
Connectors:

LENS (6-pin), RGB/SYNC (D-sub 9-pin),

GENLOCK IN (BNC), DC IN/REMOTE (12-pin),

VIDEO OUT (BNC), CCU (20-pin)

Dimensions



Unit: mm (inch)

Specifications

Image device:	1/2-inch Interline Transfer CCD (×3)
Picture elements:	768(H) × 494(V)
Sensing area:	6.4mm × 4.8mm (1/2-inch)
Signal system:	NTSC color system
Scanning system:	525 lines, 2:1 interlace
Sync system:	Internal or external with VBS/BS
Horizontal resolution:	720TV lines

1 Color video cameras

DXC-755

3-chip CCD color video camera

•Two-piece design composed of a camera head and a camera control unit •Compact and lightweight camera head (600g without cable) for easy installation •Various camera adjustment from a camera control unit •High resolution Hyper HAD IT sensor offers superior picture quality •High sensitivity of F8.0 at 2000 lx, High horizontal resolution of 750TV lines and high signal-to-noise ratio of 60dB •Linear matrix circuit, gamma selection, detail level adjustment and selectable knee position for precise picture controls •Seven step variable speed electronic shutter (from 1/100 to 1/10000) •Multiple outputs of composite, R/G/B, Y/R-Y/B-Y and Y/C signals •Built-in full color bar generator •Auto white/black balance •Convenient gain-up switch (0/+9/+18dB) •Genlock capability with VBS or HD/VD signals •Monitor output from camera head •Up to 100m cable extension capability between camera head and camera control unit via CCZ-A cable •Adoption of bayonet lens mount •TGR-750 supplied title generator produces characters to be superimposed on a picture

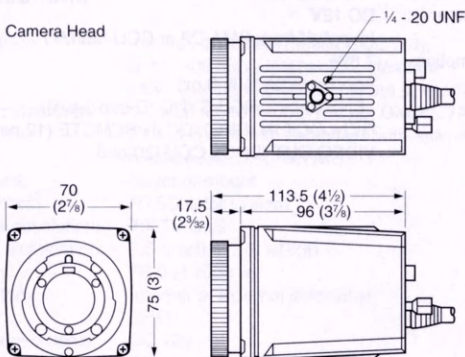
Supplied accessories: Title generator TGR-750

ND filter
Rack mount kit
Screws (x4)
AC power cord
Operating instruction manual

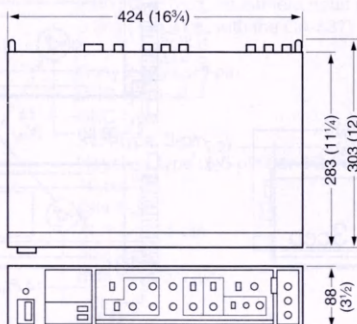
Optional accessories: Microscope adaptor with auto iris MVA-20
Microscope adaptor MVA-33
Coupler for NIKON microscopes except the SMZ-10 series MVAC-33-N
Coupler for NIKON SMZ-10 series microscopes MVAC-33-SM
Coupler for OLYMPUS microscopes MVAC-33-O
Microscope adaptor (one way) MVA-365
Microscope adaptor (two way) MVA-380
Microscope adaptor (two way) MVA-385
Remote controller (of the MVA-385) RM-385
Extension cable for TGR-750 (3m) RC-75
Camera cable (2/5/10/25/50/100m)
CCZ-A2/A5/A10/A25/A50/A100
CCZ-A cable extension connector CCZZ-1E
25mm Fixed focal lens (F1.4) VCL-25BY

Dimensions

Camera Head



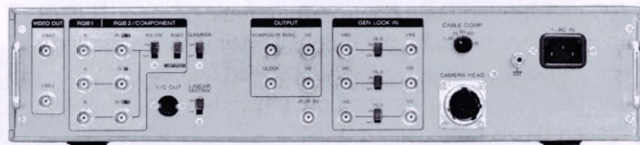
Camera Control Unit



Unit: mm (inch)



Camera Control Unit



Specifications

Image device: 2/3-inch InterlineTransfer CCD (x3)
Picture elements: 768 x 493 (H/V)
Sensing area: 8.8mm x 6.6mm (2/3-inch)
Signal system: NTSC color system
Sync system: Internal or external with VBS or HD/VD
Horizontal resolution: 750TV lines
Lens mount: Bayonet
Sensitivity: F8.0 at 2,000 lx
Minimum illumination: 10 lx with F1.4, +18dB
Gain selection: 0, +9, +18dB selectable
Electronic shutter (seconds): OFF, 1/100*, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
S/N ratio: 60dB (Typical)
Operating temperature: -5 to 45°C (23 to 113°F)
Power requirements: AC 100 to 120V, 50/60Hz
Power consumption: 35W (incl. Camera head, CCU, TGR-750)
Maximum cable length: 100m (330ft)
White balance/Black balance:

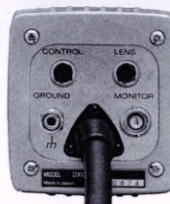
AUTO or MANUAL: R, B (GAIN, PEDESTAL)
Color bar generator: Full field
Genlock capacity: H phase and SC phase control
Camera control: Detail level, Linear matrix ON/OFF, Gamma ON/OFF, Iris, Master pedestal, Knee position

Weight: Camera head (without lens) 600g (1 lb 5 oz) (without 5m cable)
920g (2 lb 4 oz) (with 5m cable)
Camera control unit: 6.5kg (14 lb 5 oz)

Connectors: Camera head:
LENS IN (6-pin)
MONITOR OUT (BNC)
CONTROL (4-pin)
GROUND
Camera control unit:
CAMERA HEAD (26-pin)
VBS OUT (BNC x 3)
RGB 1 OUT (BNC)
RGB 2/COMPONENT (Y/R-Y/B-Y) OUT (BNC)
SYNC, HD, VD, CLOCK OUT (BNC)
Y/C OUT (4-pin)
GENLOCK IN (VBS, HD, VD) (BNC)
CONTROL IN (4-pin)
AUX IN (BNC)
TITLE (8-pin)

*Flickerless mode: Can be changed to 1/125 of a second by an internal switch in the camera head.

Camera Head



1 Color video cameras

DXC-C1

Single chip CCD color video camera

•Two-piece type color camera composed of a camera head and a camera control unit •Extremely compact, lightweight and fluid-resistant camera head design •Ideal for biological, medical and industrial microscope applications •Detachable cable design •Various camera adjustment from a camera control unit •1/2-inch high resolution Hyper HAD IT sensor offers superior picture quality •High sensitivity of F5.6 at 2000 lx, high horizontal resolution of 470TV lines and high signal-to-noise ratio of 48dB •Detail level adjustment, Gamma selection, Sync on green for precise picture controls •Eight step variable speed electronic shutter (from 1/100 to 1/10000) •Multiple outputs of composite, R/G/B and Y/C signals •Excellent color fidelity •Four alternative white balance control: AUTO (Auto White Balance), ATW (Auto Tracing White), MANU (Manual setting of R/B level, 2600K to 5600K), 3200K (Preset to 3200K) •Four alternative gain control selection (AGC/0/+6/+12) •Adoption of C-mount lens •Up to 15m Cable extension capability •Center weighted average light metering •Frang back adjustment function •Acquisition of safety approvals - UL-1409, UL-544 •CCD IRIS control (ON/OFF switchable) •Optional TGR-750 Title Generator produces characters to be superimposed on a picture

- Supplied accessories: Tripod adaptor
AC cord
Lens cap
Camera cable (5m)
Cable cap for disinfection
Operating instruction manual
- Optional accessories: Title Generator TGR-750
Extension cable CCMC-12P10C
Microscope adaptor MVA-12
Coupler for NIKON microscopes except the SMZ-10 series MVAC-33-N
Coupler for NIKON SMZ-10 series microscopes MVAC-33-SM
Coupler for OLYMPUS microscopes MVAC-33-O

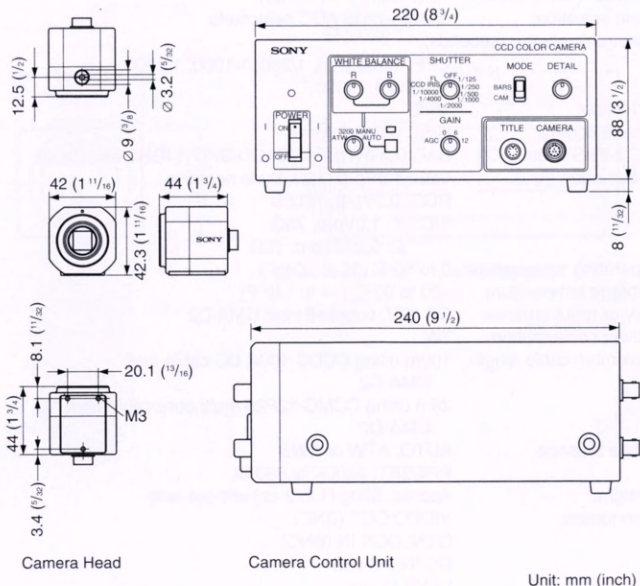
Specifications

- Image device: 1/2-inch Interline Transfer CCD
Picture elements: 768(H) × 494(V)
Sensing area: 6.4mm × 4.8mm (1/2-inch)
Signal system: NTSC color system
Sync system: External synchronization with VBS or BS
Horizontal resolution: 470TV lines
Lens mount: C mount
Sensitivity: F5.6 at 2000 lx
Minimum illumination: 4.5 lx with F1.2 (+12dB)
Gain selection: AUTO/0/+6/+12 selectable
Electronic shutter: OFF, 1/100 (FL), 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 (seconds)
S/N ratio: 48dB
White balance: AUTO/ATW/3200K/MANU (R,B) selectable
CCD IRIS control: ON/OFF switchable
Detail level adjustment: Continuously variable
Gamma control: ON/OFF selectable only for RGB signal output
Sync on Green: ON/OFF selectable
Phase control: H/SC Phase control
Video out: VBS, RGB, Y/C
Operating temperature: 0 to 40°C (32 to 104°F)
Storage temperature: -20 to 60°C (-4 to 140°F)
Power requirements: AC 120V, 50/60Hz
Power consumption: 12W
Maximum cable length: 15m using 5m supplied cable and 10m optional extension cable
- Weight: Camera head (without lens): 105g (3.7 oz) (without 5m cable)
575g (1 lb 4 oz) (with 5m cable)
Camera control unit: 2.6kg (5 lb 12 oz)
- Connectors: Camera head: CAMERA (12-pin)
Camera control unit: CAMERA (12-pin)
VBS OUT (BNC)
RGB OUT (BNC)
Y/C OUT (Mini DIN 4-pin)
SYNC OUT (BNC)
GENLOCK IN (BNC)



VIDEO CAMERAS

Dimensions



1 Color video cameras

DXC-151A

Single chip CCD color video camera

•RGB camera for image processing •High resolution 2/3-inch IT HAD CCD, together with a primary color G stripe R/B sequential filter, offers 460TV lines (VBS or Y/C output) or 440TV lines (RGB output) of horizontal resolution and superior color reproduction •Excellent signal-to-noise ratio of 48dB •RGB output via a 9-pin D-sub connector •S-video (Y/C) output is available through the CMA-D2 camera Adaptor (connected to the camera via 12-pin multi-connector or 9-pin D-sub connector) •Composite signal output via a BNC, 9-pin D-sub or 12-pin connector •3-position selectable CCD IRIS covers various light conditions-BACKLIGHT/STANDARD/SPOTLIGHT •Genlock capability with VBS or BS signals •Four alternative white balance control: Automatic control modes—AWB (Auto White Balance)/ATW (Auto Tracing White), Preset modes—INDOOR (3200K)/OUTDOOR (5600K) •Variable speed electronic shutter •C-mount adoption

Supplied accessories: Lens connector

Lens mount cap

Operating instruction manual

Optional accessories: Camera adaptor CMA-D2

DC cable CCDC-5/10/25/50A/100A

(5/10/25/50/100m),

12-pin Multi cable CCMC-12P02/05/10/25

(2/5/10/25m)

RGB cable CCXC-9DD (9-pin D-sub ↔ 9-pin D-sub)

RGB cable CCXC-9DB (9-pin D-sub ↔ 5BNC's)

RGB cable CCMC-9DS (9-pin D-sub ↔ 4BNC's, DIN 4-pin)

Microscope adaptor MVA-12

Coupler for NIKON microscopes except the SMZ-10 series MVAC-33-N

Coupler for NIKON SMZ-10 series microscopes MVAC-33-SM

Coupler for OLYMPUS microscopes MVAC-33-O

Manual zoom lens VCL-1106YM

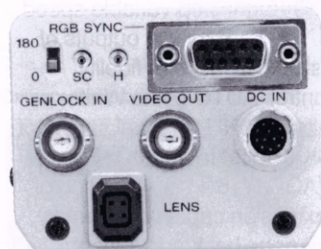
(11.5 to 69mm, F1.4)

Specifications

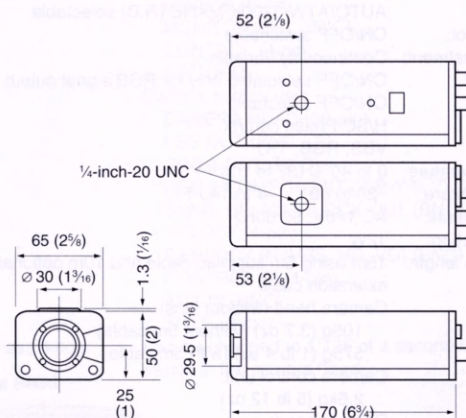
Image device: 2/3-inch InterlineTransfer CCD (×1)
 Picture elements: 768 × 493 (H/V)
 Sensing area: 8.8mm × 6.6mm (2/3-inch)
 Signal system: NTSC color system
 Sync system: Internal or external with VBS, BS
 Horizontal resolution: 460TV lines (VBS or Y/C output)
 440TV lines (RGB output)
 Lens mount: C mount
 Sensitivity: F5.6 at 2,000 lx
 Minimum illumination: 13 lx with F1.4 (+12dB)
 Gain selection: 0, +6, +12dB AGC selectable
 Electronic shutter (seconds): OFF, 1/100 (FL), 1/250, 1/1000, 1/2000, 1/4000, 1/10000
 S/N ratio: 48dB
 Phase control: H/SC phase control
 CCD IRIS control: BACKLIGHT/STANDARD/SPOTLIGHT selectable
 Video out: VBS: 1.0Vp-p, 75Ω, Sync negative
 RGB: 0.7Vp-p, 75Ω
 Y/C: Y: 1.0Vp-p, 75Ω
 C: 0.286Vp-p, 75Ω
 Operating temperature: 0 to 40°C (32 to 104°F)
 Storage temperature: -20 to 60°C (-4 to 140°F)
 Power requirements: DC 12V, supplied from CMA-D2
 Power consumption: 7W
 Maximum cable length: 100m using CCDC-100A DC cable and CMA-D2
 25m using CCMC-12P25 multi-core cable and CMA-D2
 White balance: AUTO: ATW or AWB
 PRESET: 3200K or 5600K
 Weight: Approx. 520g (1 lb 2 oz) without lens
 Connectors: VIDEO OUT (BNC)
 GENLOCK IN (BNC)
 DC IN (12-pin)
 LENS (4-pin)
 RGB, VBS or Y/C out (9-pin D-sub)



Lens is optional



Dimensions



Unit: mm (inch)

1 Color video cameras

DXC-107A

Single chip CCD color video camera

•High resolution 1/2-inch IT Hyper HAD sensor CCD offers high quality picture •High sensitivity in minimum illumination of only 4.5 lx with F1.2 lens •Excellent signal-to-noise ratio of 48dB •High horizontal resolution of 470TV lines •S-video output is available through the CMA-D2 Camera Adaptor •Four alternative white balance control: Automatic control modes—AWB (Auto White Balance)/ATW (Auto Tracing White), Preset modes—INDOOR (3200K)/OUTDOOR (5600K) •3-position selectable CCD-IRIS covers various light conditions •Variable speed electronic shutter •Built-in four digit ID number generator •C-mount adoption •External genlock capability of VS •Together with the CMA-D7/YS-W230 Camera Adaptor, video and sync signals, and DC power can be transmitted up to 300 metres away through a single 5C-2V coaxial cable

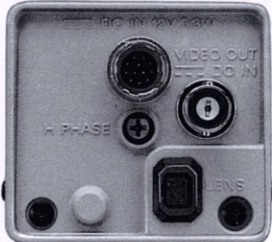
- Supplied accessories:
- Lens connector
Lens mount cap
Operating instruction manual
- Optional accessories:
- Camera adaptor CMA-D7
Camera adaptor CMA-D2
Camera adaptor YS-W230
DC cable CCDC-5/10/25/50A/100A
(5/10/25/50/100m)
12-pin multi-core cable CCMC-12P02/05/10/25
Manual iris lens VCL-06XK (6 mm, F1.2)
Remote zoom lens VCL-806XR (8 to 48mm, F1.0)
Remote zoom lens VCL-810XR (8 to 80mm, F1.2)

Specifications

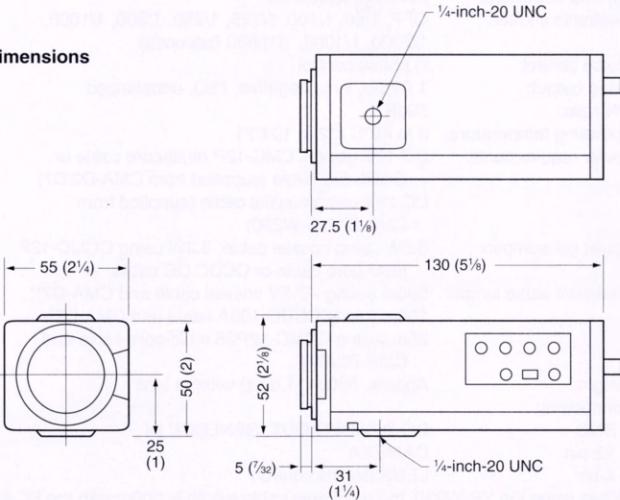
Image device:	1/2-inch InterlineTransfer CCD (×1)
Picture elements:	768 × 494 (H/V)
Sensing area:	6.4mm × 4.8mm (1/2-inch)
Signal system:	NTSC color system
Sync system:	Internal or external with VS
Horizontal resolution:	470TV lines
Lens mount:	C mount
Sensitivity:	F5.6 at 2,000 lx (AGC off)
Minimum illumination:	4.5 lx with F1.2 (AGC on)
Gain selection:	AUTO (ON/OFF selectable)
Electronic shutter (seconds):	OFF, 1/100 (FL), 1/250, 1/1000, 1/2000, 1/4000, 1/10000
S/N ratio:	48dB
CCD IRIS control:	BACKLIGHT/STANDARD/SPOTLIGHT selectable
Video out:	VBS: 1.0Vp-p, 75Ω, sync negative Y/C: Y: 1.0Vp-p, 75Ω C: 0.286Vp-p, 75Ω
Phase control:	H phase control
Operating temperature:	0 to 40°C (32 to 104°F)
Storage temperature:	−30 to 60°C (−22 to 140°F)
Power requirements:	DC 12V from CMA-D2/D7 DC 28V from CMA-D7/YS-W230
Power consumption:	6.3W using coaxial cable (DC 28V) 3.3W using CCMC-12P multi-core cable or CCDC DC cable (DC 12V)
Maximum cable length:	300m using 5C-2V coaxial cable and CMA-D7/YS-W230 100m using CCDC-100A DC cable and CMA-D2 25m using CCMC-12P25 multi-core cable and CMA-D2/D7
White balance:	AUTO: ATW or AWB PRESET: 3200K or 5600K
Weight:	Approx. 360g (12.7 oz) without lens
Connectors:	DC IN/VIDEO OUT (BNC) DC IN (12-pin) LENS (4-pin)



Lens is optional



Dimensions



Unit: mm (inch)

VIDEO CAMERAS

2 Monochrome video camera

AVC-D7

Single chip CCD monochrome video camera

•High resolution 2/3-inch IT HAD sensor offers high quality picture •High horizontal resolution of 570TV lines with high signal-to-noise ratio of 50dB •High sensitivity in a minimum illumination of 3 lx with F1.4 lens •Variable speed electronic shutter is provided •C-mount lens adoption •External genlock capability of VBS, VS, Sync or HD/VD •Built-in camera ID generator is provided •Together with the CMA-D7 or YS-W230 AC adaptor, video and sync signals, and DC power can be transmitted up to 500 meters away through a single 7C-2V coaxial cable or 300 meters away through a single 5C-2V coaxial cable respectively •All aluminum diecast body

Supplied accessories: Lens mount cap

Operating instruction manual

Optional accessories: Camera adaptor CMA-D2

Camera adaptor CMA-D7

Camera adaptor YS-W230

Coaxial cable (BNC)

12-pin multi-core cable

CCMC-12P02/05/10/25

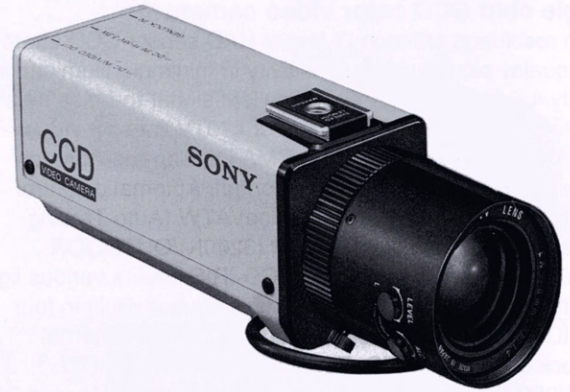
DC cable CCDC-5/10/25/50A/100A

Auto iris lens VCL-16Y (16mm, F1.4)

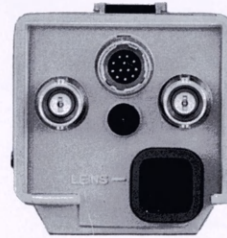
VCL-08Y (8mm, F1.4)

Manual zoom lens VCL-1106YM

(11.5mm to 69mm, F1.4)



Lens is optional



Specifications

Pick-up device: 2/3-inch Interline Transfer CCD

Picture elements: 768(H) × 493(V)

Sensing area: 8.8mm × 6.6mm

(equivalent to 2/3-inch camera tube)

Scanning system: 525 lines, 60 field/s, 2:1 interlace

Sync system: Internal or external with the VBS, VS, Sync, or HD/VD

Horizontal frequency: 15.734kHz

Vertical frequency: 59.94Hz

Horizontal resolution: 570TV lines

Lens mount: C-mount

Sensitivity: 400 lx with F4 (gamma ON, 0dB)

Minimum illumination: 3 lx with F1.4 (AGC ON)

Automatic gain control: ON/OFF selectable

Gamma correction: ON/OFF selectable

Electronic shutter: OFF, 1/60, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 (seconds)

Phase control: H phase control

Video output: 1.0Vp-p, sync negative, 75Ω, unbalanced

S/N ratio: 50dB

Operating temperature: 0 to 40°C (32 to 104°F)

Power requirements: DC 12V using CCMC-12P multi-core cable or CCDC DC cable (supplied from CMA-D2/D7)

DC 28V using coaxial cable (supplied from CMA-D7/YS-W230)

Power consumption: 6.5W using coaxial cable, 3.3W using CCMC-12P multi-core cable or CCDC DC cable

Maximum cable length: 500m (using 7C-2V coaxial cable and CMA-D7)*

100m (using CCDC-100A cable and CMA-D2)

25m (using CCMC-12P25 multi-core cable and CMA-D2/D7)

Weight: Approx. 330g (11.6 oz) without lens

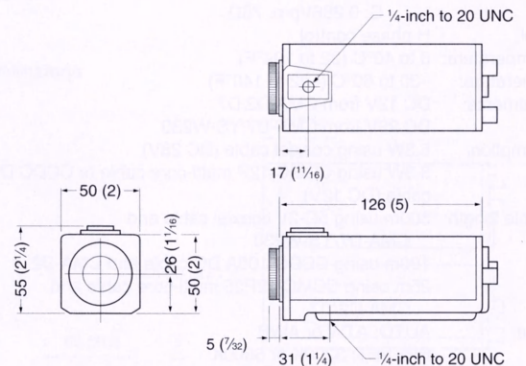
Connectors: BNC DC IN/VIDEO OUT, GENLOCK IN

12-pin CAMERA

4-pin LENS (for iris control)

*When using the YS-W230, the maximum cable length is 300m with the 5C-2V coaxial cable.

Dimensions



Unit: mm (inch)

3 Camera accessories

CCU-M7

Camera control unit for DXC-M7/537/537A/327A/930 series

- Full remote control of DXC-M7 series color video camera with maximum cable length of 300m
- Remote Control of DXC-537/537A/327A/930 series color video camera with maximum cable length of 300m
- Scene File memory for up to four shooting conditions
- VBS, R/G/B, Y/R-Y/B-Y, Y/C outputs
- XLR connector for MIC output
- Built-in AC power supply
- 19-inch rack mountable and 2-units high

Specifications

- Power requirements: AC 85 to 138V, 50/60Hz
Power consumption: 62W
Inputs/outputs: VBS OUT (x2);
BNC-type, 1.0Vp-p, sync negative, 75Ω
R/G/B OUT;
BNC-type, 0.714Vp-p, 75Ω
Y/R-Y/B-Y OUT;
BNC-type,
Y: 1.0Vp-p, sync negative, 75Ω
R-Y/B-Y: 0.7Vp-p (75% color bars)
Y/C OUT;
Y/C connector (4-pin),
[Y] 1.0Vp-p, sync negative, 75Ω
[C] 0.286Vp-p, 75Ω
SYNC OUT;
BNC-type, 4.0Vp-p, 75Ω, negative
GENLOCK IN;
BNC-type, VBS (1.0Vp-p) or
BS (0.286Vp-p), loop through
RET VIDEO IN;
BNC-type, VBS, 1.0Vp-p, loop-through
CAMERA;
Sony Z-type, 26-pin
TALLY/INTERCOM;
DIN 4-pin or screw terminals
MIC OUT;
XLR-type, 3-pin, -20dBu
Control:
Gain select
Output mode select
Status display ON/OFF
Shutter speed select
Iris (auto/manual)
White balance (auto/manual/preset)
R/B gain
Black balance (auto/manual/preset)
Master pedestal
R/B pedestal
Gamma (manual/preset)
Master gamma
R/B gamma
Knee point (auto/manual/preset)
Detail level
Sub-carrier phase
Horizontal phase
Scene File operation
Tally/Intercom
Operating temperature: -10 to 45°C (14 to 113°F)
Dimensions: Approx. 424(W) × 103(H) × 387(D)mm
(16 3/4 × 4 1/8 × 15 1/4 inches)
Weight: 8.5kg (18 lb 12 oz)
Supplied accessories: AC power cord
Rack mount metals
Optional cables:
(CCU-M7 ↔ DXC-M7/537/537A/327A)
CCZ-A2 (2m)
CCZ-A5 (5m)
CCZ-A10 (10m)
CCZ-A25 (25m)
CCZ-A50 (50m)
CCZ-A100 (100m)
(CCU-M7 ↔ DXC-930)
CCTZ-3RGB (3m) or
CCTZ-3YC (3m) with
CCZ-A cable



VIDEO CAMERAS

3 Camera accessories

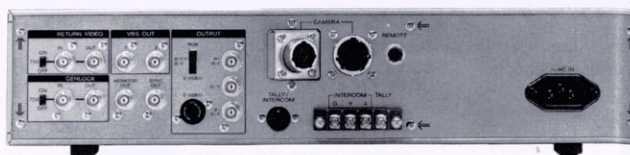
CCU-M5

Camera control unit for DXC-M7/537/537A/327A/327/930

•Directly interfaces with both Z-type (26-pin) and Q-type (14-pin) camera systems •Also interfaces with DXC-930 via CCTZ/CCZ-A or CCTQ/CCQ-AM combination •Remote control operation with maximum cable lengths of 300m for Z-type and 100m for Q-type cable •VBS, R/G/B, Y/R-Y/B-Y, Y/C output •Built-in AC power unit •19-inch rack mountable and 2-units high

Specifications

Power requirements:	AC 85V to 138V, 50/60Hz
Power consumption:	54W
Inputs/Outputs:	VBS OUT (x2); BNC-type, 1.0Vp-p, sync negative, 75Ω
	R/G/B OUT; BNC-type, 0.714Vp-p, 75Ω
	Y/R-Y/B-Y OUT; BNC-type
	Y: 1.0Vp-p, sync negative, 75Ω
	R-Y/B-Y: 0.7Vp-p (75% color bars)
	Y/C OUT; Y/C connector (4-pin), [Y] 1.0Vp-p, sync negative, 75Ω [C] 0.286Vp-p, 75Ω
	SYNC OUT; BNC-type, 4.0Vp-p, 75Ω, negative
	GENLOCK IN; BNC-type, VBS(1.0Vp-p) or BB(0.45Vp-p), loop-through
	RET VIDEO IN; BNC-type, VBS, 1.0Vp-p, loop-through
	CAMERA; Sony Q-type, 14-pin Sony Z-type, 26-pin
	TALLY/INTERCOM; DIN 4-pin or screw terminals
Control:	Gain select Output mode select Status display Shutter speed select Iris (auto/manual) White balance (auto/manual/preset) Black balance (auto/manual/preset) R/B gain Master pedestal R/B pedestal Gamma (DXC-930) Knee point (auto/manual/preset) Detail level Sub-carrier phase Horizontal phase Tally/Intercom
Operating temperature:	5 to 40°C (41 to 104°F)
Dimensions:	Approx. 424(W) × 103(H) × 321(D)mm (16 ³ / ₄ × 4 ¹ / ₈ × 12 ³ / ₄ inches)
Weight:	5.9kg (13 lb)
Supplied accessories:	AC power cord Rack mount brackets
Optional cables:	
(CCU-M5↔DXC-M7/537/537A/327A)	CCZ-A2 (2m) CCZ-A5 (5m) CCZ-A10 (10m) CCZ-A25 (25m) CCZ-A50 (50m) CCZ-A100 (100m)
(CCU-M5↔DXC-327)	CCQ-10AM (10m) CCQ-25AM (25m) CCQ-50AM (50m) CCQ-100AM (100m)
(CCU-M5↔DXC-930)	CCTZ-3RGB (3m) & CCZ-A Cable CCTZ-3YC (3m) & CCZ-A Cable CCTQ-3RGB (3m) & CCQ-AM Cable



3 Camera accessories

CMA-D2

Camera adaptor for DXC-930/151A/107A & AVC-D7

- Supplies DC power with a CCDC cable to cameras
- Transmits DC power and video/sync signals between the camera and the adaptor with a CCMC cable
- Maximum cable length: 100m with CCDC-100A cable
25m with CCMC-12P25 cable
- 19-inch EIA standard rack mountable

Connectors: CAMERA (12-pin MULTI)
CAMERA (4-pin DIN)
VIDEO OUT (BNC)
S VIDEO OUT (Mini DIN 4-pin)
GEN-LOCK IN (BNC)

DC out: 13V, 1.3A

Power requirements: AC 120V, 50/60Hz

Power consumption: 23W

Dimensions: 210(W) × 50(H) × 200(D)mm
(8³/₈ × 2 × 7⁷/₈ inches)

Weight: 1.1kg (2 lb 7 oz)

Supplied accessories:
AC power cord
Operation manual



VIDEO CAMERAS

CMA-D7

Camera adaptor for AVC-D7/DXC-107A

- Power supply and video/sync signal transmission by connecting to AVC-D7/DXC-107A with a single coaxial cable
- Maximum cable length:
AVC-D7: 500m with 7C-2V cable
DXC-107A: 300m with 5C-2V cable

Connectors: CAMERA (12-pin)
DC OUT/VIDEO IN (BNC)
VIDEO OUT (BNC × 2)
HD IN/OUT
(BNC, loop-through, 75 Ω ON/OFF)
VD (GENLOCK) IN/OUT
(BNC, loop-through, 75 Ω ON/OFF)
AC IN

DC OUT: 28V, Max. 0.25A (BNC)/12V, Max. 0.3A (12-pin)

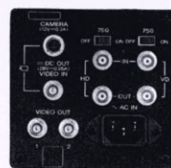
Power requirements: AC 120V, 50/60Hz

Power consumption: 30W

Dimensions: 105(W) × 104.5(H) × 254.7(D)mm
(4¹/₄ × 4¹/₄ × 10¹/₈ inches)

Weight: 2.7kg (5 lb 15 oz)

Supplied accessory:
AC power cord



CMA-8A

Camera adaptor for DXC-M7/537/537A/327/327A/Betacam SP 2000 PRO camcorders, UVW-100, EVW series

- Supplies DC power to the Camera, VO-6800/8800 and dockable VTRs
- Video output is selectable between composite (BNC) or Y/C separate (S-connector)

Input connector: 14-pin (CCQ type) for the camera

Output connectors: VIDEO OUT: BNC; VBS
S-connector; Y/C
MIC OUT: XLR 3-pin

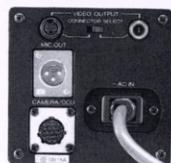
Power requirements: AC 120V, 50/60Hz

Power consumption: 95W max.

Dimensions: 105(W) × 105(H) × 308(D)mm
(4¹/₄ × 4¹/₄ × 12¹/₄ inches)

Weight: 2.8kg (6 lb 3 oz)

Supplied accessory:
AC power cord
Operation manual



RM-M7G

Remote control unit for DXC-M7/537A/537/327A/327

- Compact and lightweight hand-held control unit
- For field production or video operational panel for CCU-M7/M5

Power requirements: DC 9 to 17V, from a camera or a CCU

Power consumption: 0.4W

Weight: 500g (1 lb 2 oz)

Dimensions: Approx.
86(W) × 47(H) × 170(D)mm
(3¹/₂ × 1⁷/₈ × 6³/₄ inches)

Inputs/outputs: CAMERA; 10-pin
MONITOR OUT; BNC-type
AUXILIARY IN; 10-pin

Control: Gain select
Output mode select
VTR start/stop
Iris (auto/manual)
Auto iris override
White and black balance
(auto/manual/preset)
White balance memory
R/B gain
Gamma (manual/preset)
Master pedestal (manual/preset)
R/B pedestal
Knee point (auto/manual/preset)
Shutter speed select
Detail
Lock (ON/Part/OFF)



3 Camera accessories

RM-930

Remote control unit

- Full remote control of the DXC-930 camera functions and lens zoom/focus/iris functions
- DC operation capability with the optional CMA-D2 Camera Adaptor
- Usable cables

DXC-930↔RM-930	RM-930↔CMA-D2
CCMC-12Pcable	CCMC-12P or CCDC cable
CCMC-12P02/05/10/25	CCDC-5/10/25/50A/100A
CCMC-12P02/05/10	CCMC-12P02/05/10/25
CCMC-12P25	CCMC-12P02/05/10

Power requirements:
DC 12V (supplied from CMA-D2)
Operating temperature:
-5 to 45°C (23 to 113°F)
Connectors:
CAMERA (12-pin),
MONITOR OUT (BNC),
DC IN (12-pin)

Control:

- IRIS (AUTO/MANUAL)
- ZOOM
- FOCUS
- COLOR BAR/MENU DISPLAY
- GAIN (STEP/AGC)
- COLOR TEMPERATURE (3200K/5600K)
- WHITE BALANCE (AUTO/MANUAL)
- R/B GAIN
- AUTO BLACK BALANCE
- CCD IRIS (ON/OFF)
- SHUTTER SPEED (OFF/STEP/MANUAL)
- MASTER PEDESTAL
- DETAIL
- H. PHASE
- SC PHASE
- GAMMA (ON/OFF)
- G. SYNC



FIELD/FRAME (CCD INTEGRATION MODE)
D-SUB OUTPUT (VBS or Y/C)
Weight: Approx. 400g (14 oz)
Dimensions: 212(W) × 52.5(H) × 132(D)mm (8³/₈ × 2¹/₈ × 5¹/₄ inches)
Supplied accessories:
CCMC-12P05 cable
Operation manual

TGR-750

Title Generator

- Produces a total of 128 characters, including letters, numbers and various symbols (for example, %, *, ?, and !) on pictures from the DXC-C1 Video Camera
- A maximum of 24 characters can be produced for each of nine lines of text with a choice of eight colors
- Clock and stopwatch functions

Characters: Total 128 characters
A to Z (capital/small letters), 0 to 9, various symbols (for example, %, *, ?, and !)
Page memory function: Up to 9 pages
Character size: 7 types
Character color: 8 colors (for character & background)
Fixed cable: 30cm
Weight: 150g (5.3 oz)
Dimensions: 137(W) × 18.5(H) × 82(D)mm (5¹/₂ × 3³/₄ × 3¹/₄ inches)



CA-325A

Camera adaptor for DXC-537/537A/327/327A

- Multiple outputs of R/G/B, composite sync, VBS, Y/C and AUDIO signals
- Built-in AC power unit

Power requirements:
AC 100/120V, 50/60Hz
Power consumption:
48W
Inputs/outputs:
INTERFACE: 50-pin
VBS OUT: BNC-type
R/G/B OUT: BNC-type (x3)
COMPOSITE SYNC OUT: BNC-type
Y/C OUT: Y/C connector (Mini DIN 4-pin)
AUDIO OUT: Phono jack
GENLOCK IN: BNC-type
REMOTE: 10-pin
Weight: 1.3kg (2 lb 14 oz)



CA-325B

Camera adaptor for DXC-537/537A/327/327A

- Multiple outputs of R/G/B, composite sync, VBS, Y/C and AUDIO signals
- DC operation type

Power requirements:
DC 12V
Inputs/outputs:
INTERFACE: 50-pin
VBS OUT: BNC-type
R/G/B OUT: BNC-type (x3)
COMPOSITE SYNC OUT: BNC-type
Y/C OUT: Y/C connector (Mini DIN 4-pin)
AUDIO OUT: Phono jack
GENLOCK IN: BNC-type
REMOTE: 10-pin
DC IN: XLR-type, 4-pin
Weight: 500g (1 lb 2 oz)



3 Camera accessories

CA-327

Camera adaptor for DXC-327

- For interfacing DXC-327 with portable VTRs, CCU-M5 and CMA-8A
- Equips an S-connector and audio out connector
- Can be used with DXC-537/537A/327A (Serial No. 10271 and above)

Power requirements:

DC 12V

Inputs/outputs:

INTERFACE: DIN 50-pin

VTR/CCU/CMA: Sony Q-type, 14-pin

MIC IN: XLR-type, 3-pin

DC IN: XLR-type, 4-pin

GENLOCK IN: BNC-type

EARPHONE: mini jack

INTERCOM: mini intercom jack

Weight:

1.2kg (21 lb 10 oz)



VIDEO CAMERAS

CA-537

Camera adaptor for DXC-537/537A/327A

- For interfacing DXC-537/537A/327A with portable VTRs, CCU-M7/M5 and CMA-8A
- Supplies mic power from MIC IN connector

Power requirements:

DC 12V

Power consumption:

1.7W

Inputs/outputs:

INTERFACE: DIN 50-pin

VTR/CCU/CMA: Sony Z-type, 26-pin

MIC IN: XLR-type, 3-pin

DC IN: XLR-type, 4-pin

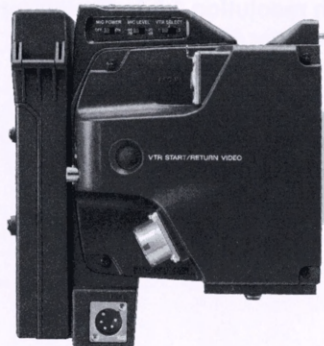
GENLOCK IN: BNC-type

EARPHONE: mini jack

INTERCOM: mini intercom jack

Weight:

1.3kg (2 lb 14 oz)



CA-511

Camera adaptor for DXC-537/537A/327A

- Allows a BVV-5 to be coupled with a DXC-537/537A/327A

Power requirements:

DC 12V

Power consumption:

0.1W

Inputs/outputs:

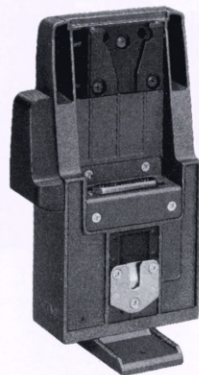
INTERFACE: DIN 50-pin

Betacam output: D-sub 50-pin

Weight:

0.5kg (1 lb 2 oz)

Note: The CA-511 does not allow connection with the CA-50/50A series camera adaptors.



CA-512

Camera adaptor for DXC-537/537A/327/327A

- Allows an AG-7450/7450A Panasonic S-VHS video tape recorder to be coupled with a DXC-537/537A/327/327A

Power requirements:

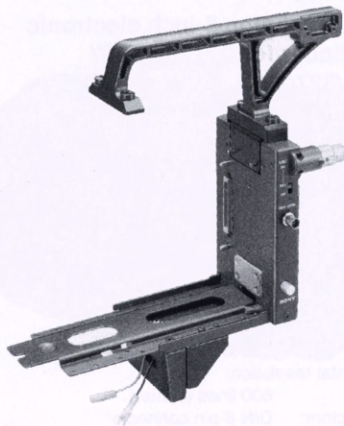
DC 12V

Power consumption:

0.35W

Input/outputs: INTERFACE: 50-pin x1
68-pin x1

Weight: 0.7kg (1 lb 9 oz)



3 Camera accessories

CA-513

Camera adaptor for DXC-537/ 537A/327/327A

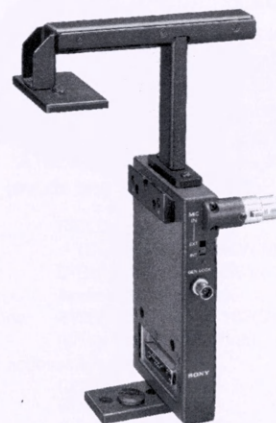
- Allows a BR-S411/S420C JVC S-VHS video tape recorder to be coupled with a DXC-537/537A/327/327A

Power requirements:
DC 12V

Power consumption:
0.15W

Input/outputs: INTERFACE: 50-pin × 2

Weight: 0.69kg (1 lb 8 oz)



DXF-501

High resolution 1.5-inch electronic viewfinder for DXC-537/537A/ 327/327A series (monochrome)

- Supplied with the DXC-327K/327L/327AK/327AL/537K/537L/537AK/537AL, EVW-537K/327K/300
- Quick start CRT
- Sophisticated diopter design

Picture tube: 1.5-inch 50° deflection

Horizontal resolution:
550 lines (centre)

Power requirements:
DC 12V, supplied from a camera

Power consumption:
2.3W

Weight: Approx. 500g (1 lb 2 oz)

Dimensions: Approx.
182(W) × 64(H) × 189(D)mm
(7 1/4 × 2 5/8 × 7 1/2 inches)



DXF-40A

4-inch electronic viewfinder for DXC-M7/537/537A/327/327A, EVW series (monochrome)

- Tally, intercom facilities
- Can be mounted into the RMM-1800 rack mounting metal

Picture tube: 4-inch monochrome,
50° deflection

Horizontal resolution:
400 lines (center)

Connectors: DIN 8-pin connector
Phone and mini for intercom

Power requirements:
Supplied from a camera

Power consumption:
11W

Operating temperature:
0 to 40°C (32 to 104°F)

Dimensions: Approx.
105(W) × 107(H) × 252(D)mm
(4 1/4 × 4 1/4 × 10 inches)
including projecting parts and
controls

Weight: Approx. 1.7kg (3 lb 11 oz)
with stand and hood



Supplied accessories:
Stand, Screws (×4), Hood,
Connecting cord (mini-mini)

DXF-50

High resolution 5-inch electronic viewfinder for DXC-M7/537/ 537A/327/327A, EVW series (monochrome)

- Tally facility
- “+” mark appears on the screen with
CENTER MARK switch

Picture tube: 5-inch monochrome,
70° deflection

Scanning system:
2:1 interlace
525 lines

Horizontal resolution:
600 lines (center)

Connectors: DIN 8-pin connector

Power requirements:
Supplied from a camera

Power consumption:
10W

Operating temperature:
-10 to 50°C (14 to 122°F)

Dimensions: Approx.
144.5(W) × 167(H) × 290(D)mm
(5 3/4 × 6 5/8 × 11 1/2 inches)
including projecting parts and
controls

Weight: Approx. 3.1kg (6 lb 14 oz)
with stand and hood

Supplied accessories:
Stand, Screws (4)



3 Camera accessories

DC-520

**Battery adaptor for DXC-537/
537A/327/327A, Betacam SP 2000
PRO camcorders, UVW-100,
EVW series**

- For attaching two NP-1A/1B battery packs to the DXC-327/327A/537/537A, Betacam SP 2000 PRO camcorders, UVW-100, EVW series

Dimensions: Approx.
100(W) × 195(H) × 44(D)mm
(4 × 7³/₄ × 1³/₄ inches)
Weight: Approx. 230g (8 oz)



VIDEO CAMERAS

DR-100

Intercommunication headset

- Used in the DXC-M7/537/537A/327/327A/CCU-M5/M7 and SEG-2550A/2000A
- With mini type 4-pole plug

Weight: 105g (3.7 oz)



LC-420

**Carrying case for DXC-327/327A/
EVW-327/327A Hi8 camcorder
series**

- Suitable for transportation and storage of DXC-327/327A
- Can hold DXC-327/327A in camcorder configuration with the EVV-9000
- Supplied with the DXC-327K/327L/327AK/327AL/EVW-327K

Dimensions: Approx.
790(W) × 440(H) × 340(D)mm
(31¹/₈ × 17³/₈ × 13¹/₂ inches)
Weight: 7.7kg (17 lb)



LC-421

**Carrying case for DXC-537/537A/
EVW-537/537A and DXC-537/
PVV-1A, DXC-537A/PVV-1A
camcorders, UVW-100**

- Suitable for transportation and storage of DXC-537/537A
- Can hold the DXC-537/537A with the EVV-9000 or PVV-1A attached and UVW-100
- Supplied with the DXC-537K/537L, 537AK/537AL and EVW-537K

Dimensions: Approx.
790(W) × 440(H) × 340(D)mm
(31¹/₈ × 17³/₈ × 13¹/₂ inches)
Weight: 7.7kg (17 lb)



3 Camera accessories

LC-422A

Carrying case for EVW-300 camcorder

- Suitable for transportation and storage of the EVW-300

Dimensions: Approx.
696(W) × 419(H) × 260(D)mm
(27¹/₂ × 16¹/₂ × 10¹/₄ inches)

Weight: Approx. 4.8kg (10 lb 9 oz)



LC-304SFT

Soft carrying case for DXC-M7/537/537A/327/327A, EVW-537/537A/327/327A, Betacam SP 2000 PRO camcorders

- Suitable for transportation of DXC-M7 or DXC-537/537A/327/327A with a camera adaptor connected
- Can also hold EVW-537/537A/327/327A, Betacam SP 2000 PRO camcorders
- Lightweight for easy transportation

Dimensions: Approx.
720(W) × 360(H) × 286(D)mm
(28³/₈ × 14¹/₄ × 11³/₈ inches)

Weight: 2.2kg (4 lb 14 oz)

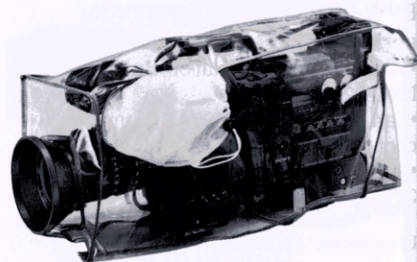


LCR-1

Camera rain cover for DXC-M7/537/537A/327/327A, UVW-100, EVW series/Betacam SP 2000 PRO camcorders

- Can be used for the DXC-M7/537/537A/327/327A, UVW-100, EVW series/Betacam SP 2000 PRO camcorders
- Transparent material used to operate camera and VTR switches with the LCR-1 on

Weight: 260g (9 oz)

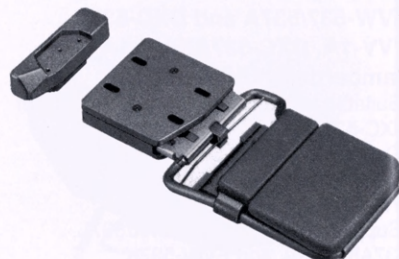


CAC-4

Chest pad for DXC-M7/537/537A/327/327A/ series, UVW-100, EVW series camcorders

- Provides more stable camera operation
- Attachable to the VCT-12/14/U14 tripod adaptors directly

Weight: Approx. 185g (7 oz)



3 Camera accessories

CAC-12

Camera microphone holder

- Adjustable microphone direction
- For attaching the ECM-672/670 or the C-74 condensor microphone to the DXC-M7/537/537A/327/327A, EVW series camcorders



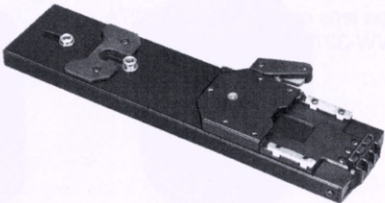
VIDEO CAMERAS

VCT-12

Tripod adaptor for DXC-327/327A, EVW-327/327A/300

- Supplied with the DXC-327K/327L/327AK/327AL, EVW-327K/300K/300L series
- To attach the DXC-327/327A, EVW-327/327A/300 to a tripod without detaching the shoulder pad

Dimensions: Approx.
340(W) × 32(H) × 105(D)mm
(13½ × 1⅝ × 4¼ inches)
Weight: Approx. 770g (1 lb 11 oz)



VCT-14

Tripod adaptor for DXC-M7/537/537A/EVW-537/537A series

- Supplied with the DXC-M7K/M7/537K/537L/537AK/537AL, EVW-537K series
- To attach the DXC-M7/537/537A, EVW-537/537A to a tripod
- Adjustable camera position with screws

Dimensions: Approx.
282(W) × 27(H) × 80(D)mm
(11⅞ × 1⅞ × 3¼ inches)
Weight: Approx. 900g (2 lb)

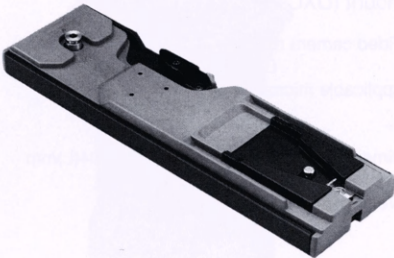


VCT-U14

Tripod Adaptor for UVW-100/DXC-M7/537/537A/EVW-537/537A series

- Supplied with the UVW-100K/100L
- To attach the UVW-100/DXC-M7/537/537A/EVW-537/537A to a tripod
- Adjustable camera position with screws

Dimensions: Approx.
282(W) × 27(H) × 80(D)mm
(11⅞ × 1⅝ × 3¼ inches)
Weight: Approx. 900g (2 lb)



RMM-1800

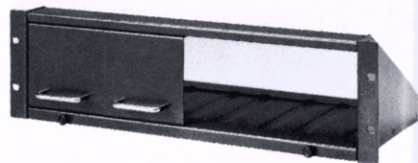
Rack-mounting metal

•This mounting adaptor is used for installing the DXF-40A/PVM-4000 and CMA-7/8A into a 19-inch EIA standard rack which provides a clean and organized arrangement for studio system

Dimensions: 482(W) × 136.2(H) × 223(D)mm
(19 × 5³/₈ × 8⁷/₈ inches)

Weight: 3.1kg (6 lb 13 oz)

Supplied accessories:
Blank panel × 2



LO-32BMT

2/3-inch lens mount adaptor for DXC-327/327A, EVW-327/327A/300

•For mounting a 2/3-inch bayonet-mount type lens on the DXC-327/327A, EVW-327/327A/300



MVA-12

Video camera microscope adaptor

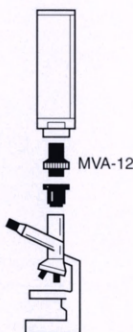
•For 1-inch or 2/3-inch video camera with C-mount
(DXC-C1*/107A*/151A, AVC-D7)

Video camera mount:
C-mount

Applicable microscope:
Biological or metallurgical microscope with straight tube

Dimensions: 48(dia.) × 98(L)mm
(1¹⁵/₁₆ × 3⁷/₈ inches)

Weight: 120g (4.2 oz)



* Although the MVA-12 can also be used with the DXC-C1/107A(1/2-inch camera), the effective viewing area is to be changed

MVA-20

Microscope adaptor with Auto Iris

•For 2/3-inch video camera with bayonet mount (DXC-755/730)

Video camera mount:
Bayonet

Applicable microscope:
Biological or metallurgical microscope

Dimensions: 74(dia.) × 116(W) × 104(L)mm
(3 × 4⁵/₈ × 4¹/₈ inches)

Weight: 600g (1 lb 5 oz)



3 Camera accessories

MVA-33

Microscope adaptor

- For $\frac{2}{3}$ -inch video camera with bayonet mount (DXC-755)

Video camera mount:

Bayonet

Applicable microscope:

Biological or metallurgical microscope

Dimensions: 55(dia.) \times 100(L)mm
(2 $\frac{1}{4}$ \times 4 inches)

Weight: 250g (9 oz)



VIDEO CAMERAS

MVAC-33 series

Coupler

- MVAC-33-N: For NIKON Microscopes except the SMZ-10 series, MVAC-33-SM: For NIKON SMZ-10 series microscopes, MVAC-33-O: For OLYMPUS microscopes
- Used with the MVA-12/20/33/40/41A

Dimensions: MVAC-33-N:
48(dia.) \times 44(L)mm
(1 $\frac{15}{16}$ \times 1 $\frac{3}{4}$ inches)

MVAC-33-SM:
47(dia.) \times 87.5(L) mm
(1 $\frac{7}{8}$ \times 3 $\frac{1}{2}$ inches)

MVAC-33-O:
55(dia.) \times 48(L)mm
(2 $\frac{1}{4}$ \times 1 $\frac{15}{16}$ inches)

Weight: MVAC-33-N: 50g (1.8 oz)
MVAC-33-SM: 125g (5 oz)
MVAC-33-O: 100g (3.6 oz)



MVAC-33-N



MVAC-33-SM



MVAC-33-O

MVA-40

Microscope adaptor for DXC-327/327A/930

- For mounting the DXC-327/327A/930 series onto various types of microscopes
- Automatic/manual light control

Dimensions: 74(dia.) \times 108(L)mm
(max. width of 116mm)
(3 \times 4 $\frac{3}{8}$ inches)
(max. width of 4 $\frac{5}{8}$ inches)

Weight: 600g (1 lb 5 oz)



MVA-41A

Microscope adaptor for DXC-327/327A/930

- For mounting the DXC-327/327A/930 series onto various types of microscopes

Dimensions: 50(dia.) \times 77(L)mm
(2 \times 3 $\frac{1}{8}$ inches)

Weight: 180g (6 oz)



3 Camera accessories

MVA-265

Operation microscope adaptor (one way)

- For 1/2-inch video camera with bayonet mount (DXC-930)
- For Carl Zeiss OPML series/TOPCON 600 series

Video camera mount: Bayonet

Applicable microscope:

Dimensions: 148(W) × 92(H) × 50(D)mm
(5⁷/₈ × 3⁵/₈ × 2 inches)

Weight: 550g (1 lb 3 oz)



MVA-365

Operation microscope adaptor (one way)

- For 2/3-inch video camera with bayonet mount (DXC-755/730)
- For Carl Zeiss OPML series/TOPCON 600 series

Video camera mount: Bayonet

Applicable microscope:

Dimensions: 80(W) × 154(H) × 86(D)mm
(3¹/₄ × 6¹/₈ × 3¹/₂ inches)

Weight: 650g (1 lb 7 oz)



MVA-380

Operation microscope adaptor (two way)

- For 2/3-inch video camera with bayonet mount (DXC-755)
- For Carl Zeiss OPML series/TOPCON 600 series
- Focus can be remotely controlled by the supplied remote controller

Video camera mount: Bayonet

Applicable microscope:

Dimensions: 70 (W) × 94 (H) × 184 (D)mm
(2⁷/₈ × 3³/₄ × 7¹/₄ inches)

Weight: 750g (1 lb 10 oz)



Video camera accessory combinations

		DXC-537A	DXC-327A	DXC-930	DXC-755	DXC-151A	DXC-107A	DXC-C1	AVC-D7
Camera control unit	CCU-M7	○ ^{*1}	○ ^{*2}	○					
	CCU-M5	○	○	○					
AC adaptor	CMA-8A	○	○						
	CMA-D2			○		○	○	○	○
	CMA-D7						○		○
Viewfinder	DXF-501	○	○						
	DXF-40A	○	○						
	DXF-50	○	○						
Carrying case	LC-420		○						
	LC-421	○							
	LC-304SFT	○	○						
Tripod adaptor	VCT-12		○						
	VCT-14	○	△						
	VCT-U14	○	△						
Inter-com. headset	DR-100	○	○						
Microscope/endscope adaptor	MVA-12					○	△ ^{*3}	△ ^{*3}	○
	MVA-20	○			○				
	MVA-33	○			○				
	MVAC-33	○	○	○	○	○	△ ^{*3}	△ ^{*3}	○
	MVA-40		○	○					
	MVA-41A		○	○					
	MVA-265			○					
	MVA-365	○			○				
	MVA-380	○			○				
Others	DC-520	○	○						
	CAC-4	○	○						
	CAC-12	○	○						
	RM-M7G	○ ^{*1}	○ ^{*2}						
	CA-327	○ ^{*4}	○ ^{*4}						
	CA-537	○	○						
	CA-511	○	○						
	CA-512	○	○						
	CA-513	○	○						
	CA-325A	○	○						
	CA-325B	○	○						
	LO-32BMT		○						
	RM-930			○					

○ Recommendable △ Usable

^{*1} Gamma control cannot be used.

^{*2} Knee and gamma controls cannot be used.

^{*3} Although the MVA-12 is the Microscope Adaptor for 2/3-inch video cameras, these can also be used with the DXC-C1/107A. In this case, the effective viewing area is changed.

^{*4} Available for CA-327 models with serial No. 10271 and above.

3 Camera accessories

VT-332S (by Daiwa)

Tripod/dolly

- Suitable for the DXC-327/327A series
- Bowl leveling for extra steady adjustment of camera balance and angle
- Light weight twin tubular tripod with the built-in triangle

Minimum/Maximum height:

660mm/1360mm
(26 inches/53⁵/₈ inches)

Load capacity: 6.5kg (14 lb 5 oz)

Weight: 4.1kg (9 lb 1 oz)

Supplied accessories:

Dolly, Carrying bag
Panning rod



VSF-2000D (by Heiwa)

Tripod/dolly

- Suitable for DXC-M7/537/537A/327/327A, EVW series, UVW-100, Betacam SP 2000 PRO camcorders
- For studio use
- Equipped with two panning rods

Minimum/Maximum height:

700mm/1400mm
(27⁵/₈ inches/55¹/₈ inches)
(without dolly)

Load capacity: 15kg (33 lb 1 oz)

Weight: 10.5kg (22 lb 2 oz) with dolly

VSF-L-20 (by Heiwa)

Carrying bag for VSF-2000D

Weight: 3.5kg (7 lb 11 oz)



LIBEC 70SD (by Heiwa)

Tripod/dolly/carrying bag/spreader

- Suitable for DXC-M7/537/537A/327/327A/EVW series, UVW-100, Betacam SP 2000 PRO camcorders
- Recommended for field use
- Equipped with two extendable panning rods

Minimum/Maximum height:

820mm/1595mm
(32³/₈ inches/62⁷/₈ inches)
(without dolly)

Load capacity: 15kg (33 lb 1 oz)

Weight: 11.2kg (24 lb 5 oz)

Supplied accessories:

Dolly, Carrying bag,
Panning rods, Spreader



3 Camera accessories

System 14 Code No. 1410 (by Sachtler)

Video 14/75 Fluid head/Tripod S14

long/Spreader SP14/Cover 14pan

- Suitable for DXC-M7/537/537A/327/327A, EVW series, UVW-100, and Betacam SP 2000 PRO camcorders
- The patented Sachtler damping system ensures jerk free, precise and smooth camera movement, over a wide temperature range between -40°C (-40°F) to 60°C (140°F)
- Equipped with two panning bars

Minimum/Maximum height:

790mm/1540mm (31 $\frac{1}{8}$ inches/
60 $\frac{3}{4}$ inches) (with spreader)

Load capacity: 15kg (33 lb 1 oz)

Weight: 8kg (17 lb 10 oz)

Supplied accessories:

Spreader, two pan bars,
carrying cover



VIDEO CAMERAS

Dolly 14II Code No. 7051 (by Sachtler)

- The camera becomes mobile with the Dolly 14II for the studio use
- Can be compactly folded together by pressing a button and carried by using the built in handle

Weight: 4.4 kg (9 lb 11 oz)



System 18 Code No. 1810 (by Sachtler)

Video 18III Fluid head/Tripod DA100

long/Spreader SP100/Cover 100II

- Suitable for DXC-M7/537/537A/327/327A, UVW-100, EVW series and Betacam SP 2000 PRO camcorders
- The light and compact fluid head V18III specially designed for News Gathering. Worldwide, most commonly used fluid head for ENG Camcorders or docked camera systems
- Frictionless leak proof fluid damping with seven levels of drag, for the temperature range between -40°C (-40°F) to 60°C (140°F)
- Equipped with two extendable pan bars

Minimum/Maximum height:

810mm/1575mm (32 inches/
62 $\frac{1}{8}$ inches) (with spreader)

Load capacity: 20kg (44 lb 1 oz)

Weight: 11.9kg (26 lb 4 oz)

Supplied accessories:

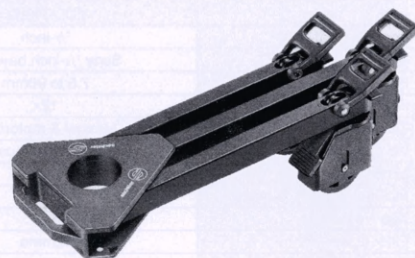
Spreader, two pan bars,
carrying cover



Dolly S Code No. 7065 (by Sachtler)

- Through the angle lock of the spinning wheel and the independent wheel brake, defined circles and precise parallel movements can be made. For studio use
- Can be folded together and easily carried with it's built in handle

Weight: 4.45kg (9 lb 13 oz)



4 Lenses

LENSES FOR DXC-537/537A/M7, EVW-537/537A series, DXC-537 or 537A/ PVV-1A camcorder (2/3-inch Bayonet mount type, 12-pin connector)



	J8 × 6BI-B	J14a × 8.5BI-B	J15 × 9.5BI-B	YJ17 × 9.5BK-B	J20a × 8BI-B
Image format	2/3-inch	2/3-inch	2/3-inch	2/3-inch	2/3-inch
Mount	Sony bayonet	Sony bayonet	Sony bayonet	Sony bayonet	Sony bayonet
Focal length	6 to 48mm	8.5 to 119mm	9.5 to 143mm	9.5 to 162mm	8 to 160mm
Zoom ratio	8×	14×	15×	17×	20×
Zoom control	Manual & motorized	Manual & motorized	Manual & motorized	Manual & motorized	Manual & motorized
Iris control	Auto & manual	Auto & manual	Auto & manual	Auto & manual	Auto & manual
Maximum aperture ratio	1.7	1.7	1.8	1.8	1.7
Minimum object distance	0.3m	0.8m	0.95m	0.95m	0.9m
Zoom extender	2.0×	2.0×	2.0×	—	2.0×
Macro	—	○	○	○	○
Filter size	105mmø	82mmø	82mmø	82mmø	105mmø
Weight	1.7 kg (3 lb 12 oz)	1.28kg (2 lb 13 oz)	1.6kg (3 lb 8 oz)	1.45kg (3 lb 3 oz)	1.75kg (3 lb 14 oz)
Dimensions	233mm(L) (9 1/4 inches)	192.6mm(L) (7 5/8 inches)	186mm(L) (7 3/8 inches)	167.3mm(L) (6 5/8 inches)	232.6mm(L) (9 1/4 inches)
Note	By Canon	By Canon	By Canon	By Canon	By Canon



	A8.5 × 5.5BEVM-28	A15 × 8BEVM-28	VCL-916BYA	A16 × 9BERM-28	A18 × 8.5BEVM-28
Image format	2/3-inch	2/3-inch	2/3-inch	2/3-inch	2/3-inch
Mount	Sony bayonet	Sony bayonet	Sony bayonet	Sony bayonet	Sony bayonet
Focal length	5.5 to 47mm	8 to 120mm	9 to 144mm	9 to 144mm	8.5 to 153mm
Zoom ratio	8.5×	15×	16×	16×	18×
Zoom control	Manual & motorized	Manual & motorized	Manual & motorized	Manual & motorized	Manual & motorized
Iris control	Auto & manual	Auto & manual	Auto & manual	Auto & manual	Auto & manual
Maximum aperture ratio	1.7	1.7	1.8	1.8	1.7
Minimum object distance	0.3m	0.75m	0.9m	0.9m	0.75m
Zoom extender	1.7×	2.0×	—	2.0×	2.0×
Macro	○	○	○	○	○
Filter size	95mmø	82mmø	77mmø	77mmø	95mmø
Weight	1.82kg (4 lb)	1.38kg (3 lb 1 oz)	1.2kg (2 lb 10 oz)	1.35kg (3 lb)	1.49kg (3 lb 6 oz)
Dimensions	235mm(L) (9 3/8 inches)	202mm(L) (8 inches)	165mm(L) (6 1/2 inches)	183.8mm(L) (7 1/4 inches)	201.5mm(L) (8 inches)
Note	By Fujinon	By Fujinon	By Fujinon	By Fujinon	By Fujinon

LENSES FOR DXC-327/327A, UVW-100, EVW-327/327A/300 series, DXC-327A/PVV-1A camcorder (1/2-inch Bayonet mount type, Hot-shoe connector)



	VCL-712BX	VCL-713BX	PH15 × 7B IRS
Image format	1/2-inch	1/2-inch	1/2-inch
Mount	Sony 1/2-inch bayonet	Sony 1/2-inch bayonet	Sony 1/2-inch bayonet
Focal length	7.5 to 90mm	7.5 to 97.5mm	7 to 105mm
Zoom ratio	12×	13×	15×
Zooming control	Manual & motorized	Manual & motorized	Manual & motorized
Iris control	Auto & manual	Auto & manual	Auto & manual
Maximum aperture ratio	1.4	1.4	1.4
Minimum object distance	1.1m	1.0m	0.95m
Zoom extender	—	—	2.0×
Filter size	72mmø	72mmø*	82mmø
Weight	1.2kg (2 lb 10 oz)	910g (2 lb)	1.6kg (3 lb 8 oz)
Dimensions	154mm(L) (6 1/8 inches)	147.5mm(L) (5 7/8 inches)	190.2mm(L) (7 1/2 inches)
Lens connector	Hot-shoe type	Hot-shoe type	Hot-shoe type
Notes	By Fujinon	By Canon	By Canon




*82mmø Filter is also usable by fitting it in the lens hood.



4 Lenses

LENSES FOR DXC-327/327A, UVW-100, EVW-327/327A/300 series,
DXC-327A/PVV-1A camcorder (1/2-inch Bayonet mount type, Hot-shoe connector)

			
	S16 x 6.7BERM-18	S16 x 6.7BERM-18	YH17 x 7 KRS7
Image format	1/2-inch	1/2-inch	1/2-inch
Mount	Sony 1/2-inch bayonet	Sony 1/2-inch bayonet	Sony 1/2-inch bayonet
Focal length	6.7 to 107mm	6.7 to 107mm	7 to 119mm
Zoom ratio	16x	16x	17x
Zooming control	Manual & motorized	Manual & motorized	Manual & motorized
Iris control	Auto & manual	Auto & manual	Auto & manual
Maximum aperture ratio	1.4	1.4	1.4
Minimum object distance	0.9m	0.9m	0.95m
Zoom extender	—	2.0x	—
Filter size	77mmø	77mmø	82mmø
Weight	1.2kg (2 lb 10 oz)	1.35kg (3 lb)	1.45kg (3 lb 3 oz)
Dimensions	165mm(L) (6 1/2 inches)	188.5mm(L) (7 1/2 inches)	168.9mm(L) (6 3/4 inches)
Lens connector	Hot-shoe type	Hot-shoe type	Hot-shoe type
Notes	By Fujinon	By Fujinon	By Canon

LENSES FOR DXC-151A, AVC-D7 (2/3-inch C mount type)

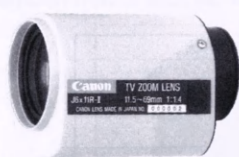
			
	VCL-16Y	VCL-08Y	VCL-1106YM
Mount	C	C	C
Focal length	16mm	8mm	11.5 to 69mm
Zoom ratio	—	—	6x
Zooming control	—	—	Manual
Iris control	Auto	Auto	Manual
Maximum aperture ratio	1.4	1.4	1.4
Filter size	43mmø	43mmø	46mmø
Weight	160g (5.6 oz)	184g (6.4 oz)	410g (14 oz)
Dimensions	46.5(dia.) x 46.7(L)mm (1 7/8 x 1 7/8 inches)	46.5(dia.) x 51.1(L)mm (1 7/8 x 2 1/8 inches)	58(dia.) x 107.8(L)mm (2 3/8 x 4 1/4 inches)
Notes	By Cosmocar	By Cosmocar	By Canon

		
	J6 x 11REA-IA-II*	J10 x 10REA-IA-II*
Mount	C	C
Focal length	11.5 to 69mm	10 to 110mm
Zoom ratio	6x	10x
Zoom control	Remote	Remote
Iris control	Auto	Auto
Maximum aperture ratio	1.4	1.4
Filter size	52mmø	62mmø
Supplied accessory	Remote control box CC-8T-II, MD cable (10m)	Remote control box CC-8T-II, MD cable (10m)
Weight	Lens: 500g (1 lb 2 oz) CC-8T-II: 1.3kg (2 lb 14 oz)	Lens: 700g (1 lb 9 oz) CC-8T-II: 1.3kg (2 lb 14 oz)
Dimensions	Lens: 60(W) x 70(H) x 102.5(D)mm (2 3/8 x 2 7/8 x 4 1/8 inches)	Lens: 80(W) x 70(H) x 122.3(D)mm (3 1/4 x 2 7/8 x 6 1/2 inches)
Power requirements	AC100/117/220/240V, 50/60Hz (CC-8T-II)	AC100/117/220/240V, 50/60Hz (CC-8T-II)
Notes	By Canon	By Canon

* Auto-iris control by the E-E amps, which are installed in the lenses, makes the J6 x 11REA-IA-II and J10 x 10REA-IA-II particularly suitable for multi-camera operation by a single remote control box.

4 Lenses

LENSES FOR DXC-151A, AVC-D7 (2/3-inch C mount type)



J6 x 11R-II
J6 x 11REA-II



J10 x 10R-II
J10 x 10REA-II



CC-7T-II (Supplied to J6 x 11REA-II, J10 x 10REA-II)
Dimensions: 170(W) x 45(H) x 130(D)mm
(6³/₄ x 1³/₁₆ x 5¹/₈ inches)



CC-8T-II (Supplied to J6 x 11R-II, J10 x 10R-II,
J6 x 11REA-IA-II, J10 x 10REA-IA-II,
PH6 x 8REA-IA-II, PH10 x 8REA-IA-II)
Dimensions: 170(W) x 45(H) x 130(D)mm
(6³/₄ x 1³/₁₆ x 5¹/₈ inches)

	J6 x 11R-II	J6 x 11REA-II*	J10 x 10R-II	J10 x 10REA-II*
Mount	C	C	C	C
Focal length	11.5 to 69mm	11.5 to 69mm	10 to 110mm	10 to 110mm
Zoom ratio	6x	6x	10x	10x
Zoom control	Remote	Remote	Remote	Remote
Iris control	Remote	Remote	Remote	Remote
Maximum aperture ratio	1.4	1.4 (1.4-approx. F360)	1.4	1.4
Filter size	52mmø	52mmø	62mmø	62mmø
Supplied accessory	Remote control box CC-8T-II, MD cable (10m)	Remote control box CC-7T-II, MD cable (10m)	Remote control box CC-8T-II, MD cable (10m)	Remote control box CC-7T-II, MD cable (10m)
Weight	Lens: 500g (1 lb 2 oz) CC-8T-II: 1.3kg (2 lb 14 oz)	Lens: 500g (1 lb 2 oz) CC-7T-II: 1.3kg (2 lb 14 oz)	Lens: 700g (1 lb 9 oz) CC-8T-II: 1.3kg (2 lb 14 oz)	Lens: 700g (1 lb 9 oz) CC-7T-II: 1.3kg (2 lb 14 oz)
Dimensions	Lens: 60(W) x 70(H) x 102.5(D)mm (2 ³ / ₈ x 2 ⁷ / ₈ x 4 ¹ / ₈ inches)	Lens: 60(W) x 70(H) x 102.5(D)mm (2 ³ / ₈ x 2 ⁷ / ₈ x 4 ¹ / ₈ inches)	Lens: 80(W) x 70(H) x 122.3(D)mm (3 ¹ / ₄ x 2 ⁷ / ₈ x 6 ¹ / ₂ inches)	Lens: 80(W) x 70(H) x 122.3(D)mm (3 ¹ / ₄ x 2 ⁷ / ₈ x 6 ¹ / ₂ inches)
Power requirements	AC100/117/220/240V, 50/60Hz (CC-8T-II)	AC100/117/220/240V, 50/60Hz (CC-7T-II)	AC100/117/220/240V, 50/60Hz (CC-8T-II)	AC100/117/220/240V, 50/60Hz (CC-7T-II)
Notes	By Canon	By Canon	By Canon	By Canon

*For the J6 x 11REA-II and J10 x 10REA-II lenses, the E-E amp is installed in the CC-7T-II remote control box, whereas, the E-E amp for the J6 x 11REA-IA-II and J10 x 10REA-IA-II is installed in the lenses.

LENSES FOR DXC-C1/107A (1/2-inch C mount type)



	VCL-06XK	PHF6 1.2EA-II
Mount	C	C
Focal length	6mm	6mm
Zoom ratio	—	—
Zooming control	—	—
Iris control	Manual	Auto
Maximum aperture ratio	1.2	1.2
Filter size	34mmø	43mmø
Weight	80g (2.9 oz)	95g (3.4 oz)
Dimensions	36.1(dia.) x 34.5(L)mm (1 ⁷ / ₁₆ x 1 ³ / ₈ inches)	56.2(W) x 58(H) x 37.8(D)mm (2 ¹ / ₄ x 2 ³ / ₈ x 1 ¹ / ₂ inches)
Notes	By Canon	By Canon

LENSES FOR DXC-755 (2/3-inch Bayonet mount type)



	VCL-25BY
Mount	Bayonet
Focal length	25mm
Zoom ratio	—
Zooming control	—
Iris control	Manual
Maximum aperture ratio	1.4
Filter size	46mmø
Weight	35g (12.4 oz)
Dimensions	84.5 (L) mm (3 ³ / ₈ inches)
Notes	By Canon

LENSES FOR DXC-C1/107A (1/2-inch C mount type)






	PH6 x 8REA-IA-II**	PH10 x 8REA-IA-II**	VCL-806XR***	VCL-810XR***
Mount	C	C	C	C
Focal length	8 to 48mm	8 to 80mm	8 to 48mm	8 to 80mm
Zoom ratio	6x	10x	6x	10x
Zoom control	Remote	Remote	Remote	Remote
Iris control	Auto	Auto	Remote	Remote
Maximum aperture ratio	1.0	1.2	1.0	1.2
Filter size	52mmø	62mmø	52mmø	62mmø
Supplied accessory	Remote control box CC-8T-II, MD cable (10m)	Remote control box CC-8T-II, MD cable (10m)	—	—
Weight	Lens: 500 g (1 lb 2 oz) CC-8T-II: 1.3kg (2 lb 14 oz)	Lens: 700g (1 lb 9 oz) CC-8T-II: 1.3kg (2 lb 14 oz)	500g (1 lb 2 oz)	700g (1 lb 9 oz)
Dimensions	Lens: 60(W) x 70(H) x 96.6(D)mm (2 ³ / ₈ x 2 ⁷ / ₈ x 3 ⁷ / ₈ inches)	Lens: 70(W) x 80(H) x 126.6(D)mm (2 ⁷ / ₈ x 3 ¹ / ₄ x 5 inches)	Lens: 60(W) x 70(H) x 96.6(D)mm (2 ³ / ₈ x 2 ⁷ / ₈ x 3 ⁷ / ₈ inches)	Lens: 70(W) x 80(H) x 126.6(D)mm (2 ⁷ / ₈ x 3 ¹ / ₄ x 5 inches)
Power requirements	AC100/117/220/240V, 50/60Hz (CC-8T-II)	AC100/117/220/240V, 50/60Hz (CC-8T-II)	AC100/117/220/240V, 50/60Hz	AC100/117/220/240V, 50/60Hz
Notes	By Canon	By Canon	By Canon	By Canon

**Auto-iris control by the E-E amp, which are installed in the lenses, makes the PH6 x 8REA-IA-II and PH10 x 8REA-IA-II particularly suitable for multi-camera operation by a single remote control box.

***Zoom and Iris can be controlled by the CC-8T-II (by Canon).

4 Lenses

LENSES FOR DXC-930 (1/2-inch Bayonet mount type)

			
	VCL-707BXM	VCL-712BXEA	VCL-716BXEA
Mount	Bayonet	Bayonet	Bayonet
Focal length	7.5 to 52.5mm	7.5 to 90mm	7 to 112mm
Zoom ratio	7×	12×	16×
Zooming control	Manual	Remote	Remote
Focus control	Manual	Remote	Remote
Iris control	Manual	Remote	Remote
Maximum aperture ratio	1.6	1.4	1.4
Minimum object distance	0.3m	1.1m	1.0m
Macro	Not applicable	Applicable	Applicable
Filter size	M58 × 0.75mm	M72 × 0.75mm	M86 × 1.0mm
Weight	560 g (1 lb 4 oz)	1.25 kg (2 lb 12 oz)	1.8kg (5 lb)
Dimensions	60(dia.) × 125(L)mm (2 ³ / ₈ × 5 inches)	110(dia.) × 184.2(L)mm (4 ³ / ₈ × 7 ³ / ₈ inches)	120.5(W) × 100(H) × 178(D)mm (4 ³ / ₈ × 4 × 7 ¹ / ₈ inches)
Notes	Zoom/Focus/Iris functions can be remotely controlled from the RM-930.		

LENSES W/O REMOTE CONTROL BOX

J6 × 11R-II-A	Lenses with "A" added are not equipped with CC-7T-II or CC-8T-II remote control boxes and have been made available for use with the PTH-10S system
J6 × 11REA-II-A	
J6 × 11REA-IA-II-A	
J10 × 10R-II-A	
J10 × 10REA-II-A	
J10 × 10REA-IA-II-A	
PH6 × 8REA-II-A	
PH10 × 8REA-IA-II-A	

4 Lenses

LO-23

Flexible cable unit

- Servo zooming and manual focusing

Cable length: 1m (3.3 ft)

Weight: 1.2kg (2 lb 10 oz)



LO-26

Flexible cable unit

- Servo zooming and manual focusing

Cable length: 1m (3.3 ft)

Weight: 1.1kg (2 lb 7 oz)



LO-27

Flexible cable unit

- Servo zooming and manual focusing

Cable length: 1m (3.3 ft)

Weight: 1.1kg (2 lb 7 oz)



RM-S2/S5 series (by Fujinon)

Remote controller

- RM-S2 series for servo zooming and focusing

- RM-S5 series for servo zooming and manual focusing

RM-S2 series: RM-S2C/S2D

RM-S5 series: RM-S5D



RM-S2D

MS-21 (by Canon)
Remote controller
•Servo zooming and manual focusing



VIDEO CAMERAS

FZ-31 (by Canon)
Full servo controller
•Servo zooming and focusing



Combinations
(lens and remote controller or flexible cable unit)

Zoom lens	Lens remote control unit	
	Servo zoom/servo focus	Servo zoom/manual focus
J8 × 6BI-B	FZ-41B/J8X	MS-21
J14a × 8.5BI-B	FZ-410B	MS-210
J15 × 9.5BI-B	FZ-31B	MS-21
YJ17 × 9.5BK-B	FZ-15B	LO-26
J20a × 8BI-B	FZ-41B/J20aX	MS-210
A8.5 × 5.5BEVM-28	RM-S2D	RM-S5D
A15 × 8BEVM-28	RM-S2D	RM-S5D
VCL-916BYA	RM-S2C	LO-23
A16 × 9BERM-28	RM-S2C	LO-23
A18 × 8.5BEVM-28	RM-S2D	RM-S5D
VCL-712BX	RM-S2C	LO-23
VCL-713BX	FZ-15B	LO-26
PH15 × 7B IRS	FZ-15B	LO-26
S16 × 6.7BRM-18	RM-S2C	LO-23
S16 × 6.7BERM-18	RM-S2C	LO-23
YH17 × 7 KRS7	FZ-15B	LO-26

Editing control units

RM-450

Editing control unit

•Can be connected to 33-pin equipped editing VTR and 9-pin equipped editing VTR on both the player side and recorder side •When a 9-pin equipped editing VTR is connected, the RM-450 not only allows CTL based editing but also makes Time Code editing possible •Provides the Relative Time Code (RTC) editing mode, in which time code is used as an edit reference and time code progress is like CTL on the LED counter •The AUDIO COUNTER RESET function automatically sets the editing point first designated to "0:00:00:00" •Can use the Assemble and Insert (V/A1/A2) edit modes, and provides editing functions such as editing IN-POINT/OUT-POINT ENTRY, PREVIEW, TRIM, AUTO EDIT/END, REVIEW/JUMP, GO TO, AUDIO SPLIT, and LAST EDIT •The function keys are laid out to enable easy operation •Provides the JOG/SHUTTLE dials on both the player side and recorder side •Accepts REF. VIDEO IN (reference video input) for synchronized operation •Can memorize the pinch on delay and adjust the editing in-point automatically •Mode setting is very easy and convenient when using the preset switches on the front panel •A cue pulse out is provided for external equipment •Indicates the "Error" and error number on the LED counter along with a warning sound •A built-in self-diagnostic function improves serviceability and make maintenance easy

Supplied accessories: AC power cord
Error message chart
Operation manual

Optional accessories: 33-pin remote control extension cable RCC-15FT
9-pin remote control cable RCC-5G/10G/30G
(for VO-9850/9800/EVO-9850/9800/
UVW-1800/UVW-1600/BVU/PVW/BVW/
BVH series VTR)
Rack mount kit RMM-450
(for 19-inch EIA and SONY SU-512 rack)
Double size table SU-450 (for SONY SU rack)

Specifications

Power requirements: AC 108 to 132V, 48 to 63Hz
Power consumption: 11W
Weight: Approx. 3.1kg (61 lb 13 oz)
Dimensions: 390(W) × 93(H) × 265(D)mm
(15 × 3³/₄ × 10¹/₂ inches)
Operating temperature: 0 to 40°C (32 to 104°F)
Edit reference: CTL, SMPTE/EBU LTC, VITC
Reference video input: 0.5Vp-p to 2.0Vp-p, negative, 75Ω, unbalanced
External sync input: 0.5Vp-p to 5.0Vp-p, negative, 75Ω, unbalanced
Cue pulse signal: Active low: low level 0 to 0.5V/high 3.5 to 5.0V



PVE-500

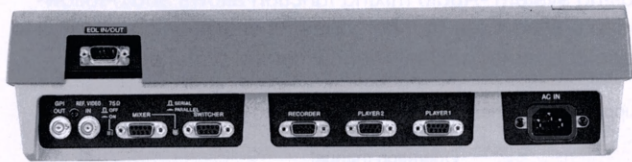
Editing control unit

•Three VTR control capability in A/B roll editing •Serial switcher interface via 9-pin RS-422A connection •Both parallel and serial audio mixer interface capability •Handles TC (Time Code), CTL (Control Track Signal), and RTC (Relative Time Code) as editing reference •Assemble and Insert (V, A1, A2) editing capability •Features variable speed control over VTRs equipped with Dynamic Tracking function •Up to 99 edits can be stored in the built-in EDL memory •Audio split edit capability offers effective insertion of sound effects •Snapshot memory number in the DFS-500 can be stored and recalled by the Edit Number •Reference video input allows synchronized operation with other equipments •Equipped with an RS-232C interface allowing SAVE/LOAD of the EDL data onto a floppy disk •A GPI output enables basic control of peripheral equipments such as audio tape recorders and title generators which cannot be directly interfaced with the PVE-500 •The two search dial operation enables quick and easy access to the edit points

- Supplied accessories: AC power cord
Operation manual
- Optional accessories: Audio mixer control cable RCC-5AA
9-pin remote control cable RCC-5/10/30G
Rack mount metal RMM-500

Specifications

General	
Power requirements:	AC 100/120/220 to 240V ±10%, 47.5 to 63Hz
Power consumption:	11W maximum
Operating temperature:	5 to 40°C (41 to 104°F)
Storage temperature:	-20 to 60°C (-4 to 140°F)
Dimensions:	390(W) × 93(H) × 265(D)mm (15 ³ / ₈ × 3 ³ / ₄ × 10 ¹ / ₂ inches)
Weight:	3.2kg (7 lb 8 oz)
Systems	
Editing reference:	CTL, RTC, SMPTE/EBU Time Code
Edit accuracy:	±0 frame with time code ±1 frame with CTL
Memory capacity:	99 events
Controls	
VTR interface:	RS-422A 9-pin remote connector
Switcher interface:	RS-422A 9-pin remote connector
Mixer interface:	9-pin serial/parallel switchable
Controllable VTRs:	1 recorder and up to 2 players



EDITING
CONTROL UNITS

FXE-100

Video editing system

•Three VTR control capability in A/B roll editing •RS-422A, RS-232C VTR accepted •Handles TC(Time Code), CTL(Control Track Signal), and 8mm Time Code as editing reference •Audio split edit possible •Up to 99 edits can be stored in the built-in EDL memory •Assemble and Insert editing capability •Equipped with an RS-232C port for SAVE/LOAD of the EDL data onto a floppy disk •Both Y/C and composite signals are accepted as video inputs •Features a range of wipe patterns including Picture Scroll and Slides •Range of attractive video effects such as Mosaic, Posterization, Picture in Picture, Pixel Trail and Mono-tone are available •Positioning of the closed wipe patterns possible with the use of the joy-stick •Chroma key and luminance key functions are provided •25 variations of color backgrounds provided •Color correction function is featured to give special tone to the image •Built-in frame synchronizers allow connections of VTRs without TBC in an editing system •Audio mixing function allows audio-follow-video editing •One monitor, one dial operation contributes to ease of operation •User friendly control panel design

Supplied accessories: AC power cord
Replacement label
Operation manual
User's guide

Optional accessories: RS-422A remote cable RCC-5/10/30G
RS-232C remote cable (9pin-25pin) SMF-3036C

Specifications

General

Power requirements: AC120V, 50/60Hz
Power consumption: AC47W maximum
Operating temperature: 5 to 40°C (41 to 104°F)
Storage temperature: -20 to 60°C (-4 to 140°F)
Dimensions: 424(W) × 137.5(H) × 437(D)mm
(16³/₄ × 5¹/₂ × 17¹/₄ inches)
Weight: 7.3kg (16 lb 1 oz)

Systems

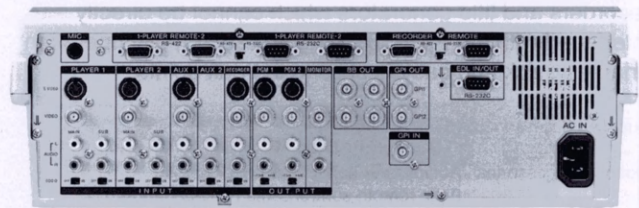
Editing reference: CTL, LTC, SMPTE/EBU TC, 8mm Time Code
Edit accuracy: With RS-422: ±0 frame with TC
±1 frame with CTL
With RS-232C: ±1 frame with TC
Memory capacity: 99 events

Control

VTR interface: RS-422A 9-pin remote connector
RS-232C 9-pin remote connector
Controllable VTRs: 1 recorder and up to 2 players

Video inputs

Composite: BNC × 4
Video: 1.0Vp-p, 75Ω
Sync: 0.286Vp-p
Burst: 0.286Vp-p
Y/C: 4-pin × 4, unbalanced
Y: 1.0Vp-p, 75Ω
C: 0.286Vp-p, 75Ω
Sync: 0.286Vp-p
Audio inputs (stereo): Phono × 4: player 1 and 2
Phono × 2: AUX, recorder, AUX-audio
Level: -7.5dBu/+4.0dBu
Impedance: more than 47kΩ
Mic input (monoral): Phone × 1, unbalanced
Level: -60dBu (0dBu=0.775rms)
Impedance: more than 7.3kΩ



Video outputs

Composite: BNC × 3, unbalanced
Video: 1.0Vp-p, 75Ω
Sync: 0.286Vp-p
Burst: 0.286Vp-p
Y/C: 4-pin × 3, unbalanced
Y: 1.0Vp-p, 75Ω
C: 0.286Vp-p, 75Ω
Sync: 0.286Vp-p
Black burst out: BNC × 4, unbalanced
Sync: 0.286Vp-p
Burst: 0.286Vp-p
Audio outputs: Phono × 2: PGM 1,2
Phono × 1: Monitor
Level: -7.5dBu/+4.0dBu
Impedance: more than 47kΩ

Signal processing

Sampling rate: Y: 910fH (fH=15.734kHz)
R-Y/B-Y: 1/4 × 910fH
Quantization: Y/R-Y/B-Y: 8bit
Frequency response: 0 to 5MHz
S/N: More than 53dB
Y/C delay: Less than 50ns (composite)

SECTION 4 DME/SWITCHERS

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1 Digital multi effects/switcher systems

DFS-500

DME switcher

•Video switcher equipped with powerful digital multi effector •325 factory preset effect patterns including non-linear digital effects
•Up to 40 manually created effect patterns can be stored in the User Program memory system for subsequent recall •Built-in two frame synchronizer accept non time base corrected video signals
•4:1:1 digital component processing realizes high picture quality
•Accepts component, composite and S-VIDEO signals to be processed simultaneously •Composed of 2 busses and 4 primary inputs •15 Original background patterns •100 panel status storage in the Snap Shot memory system •Equipped with 5 individual color matte generators •Built-in title keyer •Equipped with fader lever to allow manual picture transition •Perfect interface capabilities with BVE-2000 •Simple A/B roll editing system with PVE-500 •Modular design composed of a control panel and a processor unit •Down stream keyer function available with optional board •Lighting, trail, shadow and drop border effects are available with optional board

Typical preset patterns

mosaic, mirror, negative, solarization, posterization
picture in picture, ripple wipe, accordion, sphere, page turn, page roll, split slide, melt down, stream, flag

Supplied accessories: AC power cord
25-pin control cable, 10m
Label 1 set
Operation Manual

Optional accessories: BKDF-501
Provides drop border, shadow, trail and lighting effects.
Dimensions: 317(W) × 368(D)mm (12½ × 14½ inches)
BKDF-502
Provides down stream keyer.
Dimensions: 295(W) × 140(D)mm (11⅝ × 5⅝ inches)
BKDF-503
Enables the control panel to be mounted onto the editing console.
Dimensions: 483(W) × 354(D)mm (19⅞ × 14 inches)

Specifications

General

Power requirements: AC 100/120V, 50/60Hz
Operating voltage: AC 90 to 132V, 48 to 63Hz
Power consumption: 140W
Operating temperature: 0 to 40°C (32 to 104°F)
Dimensions: Control Panel: 424(W) × 116(H) × 344(D)mm
(16¾ × 4⅝ × 13⅝ inches)
Processor Unit: 424(W) × 177(H) × 450(D)mm
(16¾ × 7 × 17¾ inches)
Mass: Control Panel: 3kg (6 lb 10 oz)
Processor Unit: 17kg (37 lb 8 oz)

Input signals

VIDEO INPUTS 1 through 4

Composite: BNC type (1 in each)
VIDEO: 1.0Vp-p, 75Ω
SYNC: 0.286Vp-p
BURST: 0.286Vp-p
Y/C: 4-pin (1 in each)
Y: 1.0Vp-p, 75Ω
C: 0.286Vp-p, 75Ω
Component: SYNC: 0.286Vp-p
12-pin (1 in each)
Y: 1.0Vp-p, 75Ω
R-Y/B-Y: 0.7Vp-p, 75Ω

DSK VIDEO IN

Composite/G/Y: BNC type
Composite: VIDEO 1.0Vp-p, 75Ω
SYNC 0.286Vp-p
BURST 0.286Vp-p
Y: 1.0Vp-p, 75Ω
G: 0.7Vp-p, 75Ω

B/B-Y:

BNC type
B-Y: 0.7Vp-p, 75Ω
B: 0.7Vp-p, 75Ω

R/R-Y:

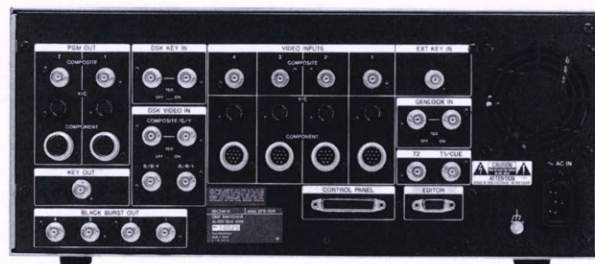
BNC type
R-Y: 0.7Vp-p, 75Ω
R: 0.7Vp-p, 75Ω

EXT KEY IN:

BNC type 1.0Vp-p, 75Ω



Rear Panel of Processor



DSK KEY IN: BNC type 1.0Vp-p, 75Ω
GEN LOCK IN: BNC type
Sync: 0.286Vp-p
Burst: 0.286Vp-p

Output Signals

PGM OUT 1 and 2

Composite: BNC type
VIDEO: 1.0Vp-p, 75Ω
SYNC: 0.286Vp-p
BURST: 0.286Vp-p
Y/C: 4-pin
Y: 1.0Vp-p, 75Ω
C: 0.286Vp-p, 75Ω
Component: SYNC: 0.286Vp-p
12-pin
Y: 1.0Vp-p, 75Ω
R-Y/B-Y: 0.7Vp-p, 75Ω

KEY OUT:

BNC type: 1.0Vp-p, 75Ω
BLACK BURST OUT: BNC type
SYNC: 0.286Vp-p, 75Ω
BURST: 0.286Vp-p, 75Ω

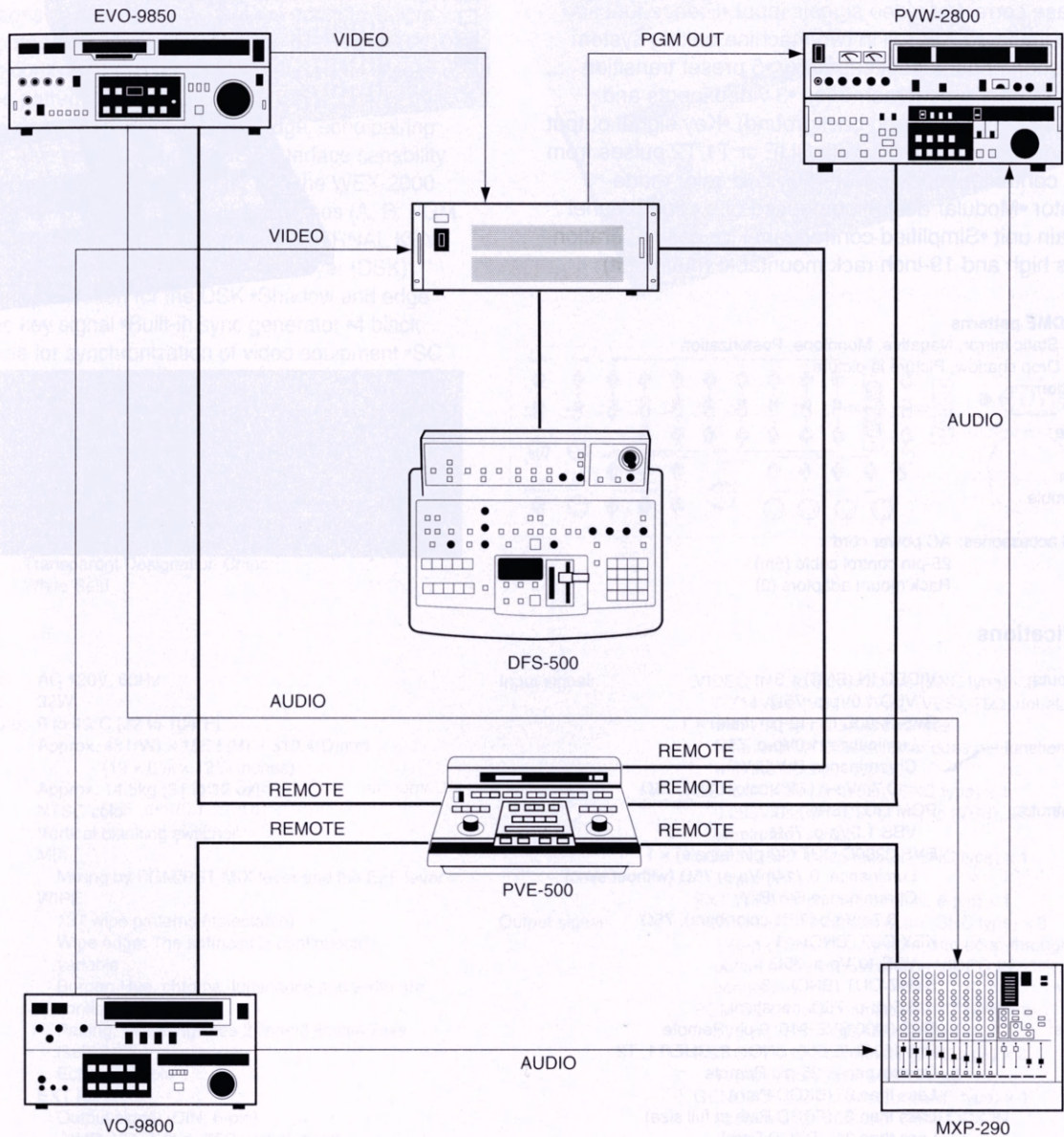
Electric Characteristics

Sampling Rate: Y: 910fH (fH: 15.625 kHz)
R-Y/B-Y: 1/4 × 910fH
Quantization: Y/R-Y/B-Y: 8 bits
Linearity (Composite output):
DG: Less than 3.5% composite input
Less than 2% component/S input
DP: Less than 2.5% composite input
Less than 1% component/S input
Cross talk: Less than -50dB
Frequency response: 0 to 5 MHz +0.5dB/-1dB
S/N: More than 51dB (composite)
More than 55dB (Y/C, component)
Y/C delay: Less than 20ns (component)
Less than 50ns (composite)

Control Signals

Editor: 9-pin remote
T1/T2, cue: BNC type
Control Panel: 25-pin remote

Multi Format A/B Roll Editing System with DFS-500



DME/SWITCHERS

1 Digital multi effects/switcher systems

DME-450

Digital multi effects

- Simple switcher system with mix, wipes and digital effects capabilities
- Various preset effect patterns of 120 DMEs and 161 wipes
- Built-in field memories allow non time base corrected video signals input
- Freeze function allows simulated A/B roll in two machine editing system
- Title superimpose/effect capability
- 5 preset transition speeds
- 4 user preset memories
- 3 video inputs and 2 busses (foreground and background)
- Key signal output
- External trigger capability with CUE or T1/T2 pulses from editing controller such as RM-450
- Two color matte generator
- Modular design composed of a control panel and main unit
- Simplified control panel for easy operation
- 3 units high and 19-inch rack mountable (main unit)



Typical DME patterns

- Mosaic, Static mirror, Negative, Monotone, Posterization
- Freeze, Drop shadow, Picture in picture
- Translation
- Split
- Squeeze
- Skew
- Rotation
- Flip, Tumble

Supplied accessories: AC power cord
25-pin control cable (5m)
Rack mount adaptors (2)



Specifications

Video inputs:	VIDEO IN (BNC) × 3 VBS 1.0Vp-p, 75Ω BVS-3200C IN (12-pin male) × 1 Luminance: 1.0Vp-p, 75Ω Chrominance R-Y/B-Y: 0.7mVp-p (75% color bars), 75Ω
Video outputs:	PGM OUT (BNC) × 2 VBS 1.0Vp-p, 75Ω BVS-3200C OUT (12-pin female) × 1 Luminance: 0.714mVp-p, 75Ω (without sync) Chrominance R-Y/B-Y: 0.7mVp-p (75% color bars), 75Ω KEY OUT (BNC) × 1 VBS 1.0Vp-p, 75Ω SYNC OUT (BNC) × 3 2.5Vp-p, 75Ω, negative
Interfaces:	BVS-3000/BVE-910: 9-pin Remote RM-450/BVE-600: BNC × 2, CUE/T1, T2 Control panel: 25-pin Remote
DP:	Less than 2° (BKGD Path)
DG:	Less than 3° (FRGD Path at full size) Less than 2° (BKGD Path)
Crosstalk:	Less than -52dB
Frequency response:	300kHz to 5.5MHz ±0.5dB (BKGD Path) 300kHz to 2.0MHz ±1.8dB (FRGD Path at full size)
S/N ratio:	Better than 58dB (BKGD Path)
Effect system:	284 preset effects 5 transition speeds 2 field memories 455 × fH sampling
Power requirements:	AC 100/120V, 50/60Hz
Power consumption:	70W
Operating temperature:	0 to 40°C (32 to 104°F)
Dimensions:	Control panel: 390(W) × 62(H) × 265(D)mm (15 ³ / ₈ × 2 ¹ / ₂ × 10 ¹ / ₂ inches) Main unit: 424(W) × 132(H) × 350(D)mm (16 ³ / ₄ × 5 ¹ / ₄ × 13 ⁷ / ₈ inches)
Weight:	Control panel: 3kg (6 lb 10 oz) Main unit: 11kg (24 lb 5 oz) with cable

SEG-2550A



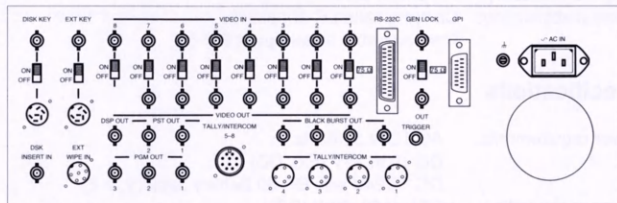
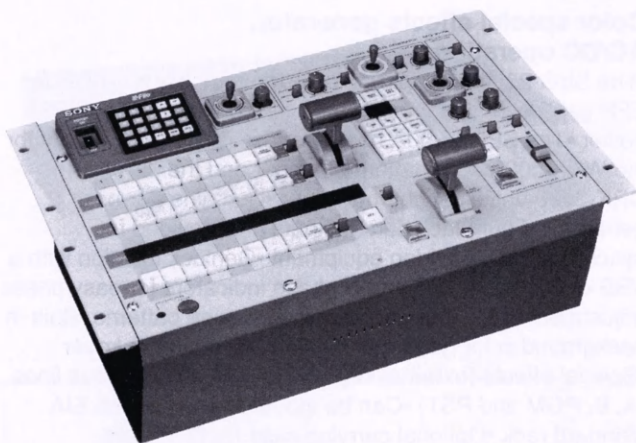
Color special effects generator

•The SEG-2550A is a compact and cost effective special effects generator for program production and post production •The E-File function, which memorizes and reproduces the setting of switches and buttons and the movement of the controls, levers and sticks, is adopted •Interface capability with the BVE-900/910 automatic editing control unit and an external computer •A total of 137 versatile wipe patterns •Wipe pattern modifiers such as the positioner, the border wipe, softness border edge, echo/pairing wipe, and mosaic wipe are provided •Perfect interface capability with the CRK-2000 universal chroma keyer and the WEX-2000 wipe pattern extender •8 video inputs and 4 bus lines (A, B, PGM and PST) for special effects (MIX, WIPE, and EXTERNAL KEY) •Built-in background color •Built-in downstream keyer (DSK) •Independent color generation for the DSK •Shadow and edge adjustment for the key signal •Built-in sync generator •4 black burst signal outputs for synchronization of video equipment •SC and H phase indicators for easy phase adjustment •19-inch rack mountable •Torque adjustment of the effects levers

- Supplied accessories:
- AC power cord
 - Wipe pattern list
 - CCJ connector for tally/intercom
 - Designation label
 - D-sub (15-pin) connector
 - Transparent Designation Chips
 - White Seal

Specifications

Power requirements: AC 120V, 60Hz
Power consumption: 82W
Operating temperature: 0 to 40°C (32 to 104°F)
Dimensions: Approx. 481(W) × 155.5(H) × 310.4(D)mm
(19 × 6 1/8 × 12 1/4 inches)
Weight: Approx. 14.5kg (31 lb 15 oz)
Color system: NTSC color
Switching system: Vertical blanking switcher
Effects: MIX
Mixing by PGM/PST MIX lever and the EFF lever
WIPE
137 wipe patterns (selectable)
Wipe edge: The softness is continuously variable
Border: Hue, chroma, luminance and width are continuously variable
Pairing: Scanning lines 2 lines/3 lines/4 lines (selectable)
Echo: Possible
EXT KEY
Output signal (DIN, 6-pin)
HD, VD, 4Vp-p, 75Ω, unbalanced
Input signal (BNC type and DIN, 6-pin)
0.714Vp-p (video), 1Vp-p (VS), 75Ω, unbalanced with 75Ω termination switch
EXT KEY connector (BNC type and DIN, 6-pin) with 75Ω termination switch
Slicer circuit is included (Clip level is variable)
DOWNSTREAM KEYS
Output signal (DIN, 6-pin)
HD, VD, 4Vp-p, 75Ω, unbalanced
Input signal (BNC type and DIN, 6-pin)
0.714Vp-p (video), 1Vp-p (VS), 75Ω, unbalanced
DSK KEY connector: (BNC type and DIN, 6-pin) with 75Ω termination switch
Shadow: Wide and narrow (selectable)
Edge: Variable
Color matte: Continuously variable
Chroma: Approx. 0 to 700mVp-p (variable according to the hue level)
Hue: 0° to 360°
Luminance (Y): Approx. 50 to 700mV continuously variable
BACKGROUND COLOR
Chroma: Approx. 0 to 700mVp-p (variable according to the hue level)
Hue: 0° to 360°
Luminance (Y): Approx. 50 to 700mV continuously variable



Input signal:

VIDEO IN 1 to 8 connectors (BNC type) × 8
0.714Vp-p (VB) or 1Vp-p (VBS), 75Ω, unbalanced with 75Ω termination switches
(The INDICATION selector does not function with the VB input signal.)
GENLOCK IN connector (BNC type) × 1
0.286V/0.286V (BS) or 1Vp-p (VBS), with 75Ω termination switch
DSK INSERT IN connector (BNC type) × 1
1Vp-p (VS)
EXT WIPE IN connector (DIN, 6-pin) × 1

Output signal:

VIDEO OUT 1 to 8 connector (BNC type) × 8
1Vp-p (VBS), 75Ω, unbalanced (loop-through output of the corresponding VIDEO IN connector)
PGM OUT 1 to 3 connector (BNC type) × 3
1Vp-p (VBS), 75Ω, unbalanced
PST OUT 1 to 2 connector (BNC type) × 2
1Vp-p (VBS), 75Ω, unbalanced
GENLOCK OUT connector (BNC type) × 1
(loop-through output of GENLOCK IN connector)
DSP OUT connector (BNC type) × 1
1Vp-p (VS), 75Ω, unbalanced
BLACK BURST OUT 1 to 4 connector (BNC type) × 4
0.286V/0.286Vp-p (BS), 75Ω, unbalanced
TALLY/INTERCOM 1 to 4 connector (DIN, 4-pin) × 4
TALLY/INTERCOM 5 to 8 connector (CCJ, 10-pin) × 1
Maximum pick-up value in a relay: 24V 200mA DC

Tally/Intercom:

Trigger:

TRIGGER (Special minijack) × 1
TAKE function by earth
(OPEN: +5V, impedance 65kΩ)

GPI:

GPI (D-sub, 15-pin) × 1
TAKE function, PGM DSK Cut-in/out by earth
(OPEN; ±5V, impedance 65kΩ)

RS-232C:

9600 baud (fixed), DTE (terminal), Signal level ±9V

DG:

Less than 1%

DP:

Less than 1°

Crosstalk:

Over -50dB

Frequency response:

8MHz ±0.5dB

S/N ratio:

Over -60dB

DME/SWITCHERS

2 Special effects systems

SEG-2000A

Color special effects generator, AC/DC operation

•The SEG-2000A is a portable special effects generator for EFP applications •It can be operated by either AC or DC power •The SEG-2000A has a perfect interface capability for the WEX-2000 wipe pattern extender and the CRK-2000 universal chroma keyer •Contains a sync generator •Four black burst outputs are provided for synchronization of video equipment •Genlock function with a VBS or BS signal •SC and H phase indicators for easy phase adjustment •Tally/Intercom facility •Six wipe patterns •Built-in background color generator •Built-in downstream keyer •Special effects (external key, mix and wipe) •Four bus lines (A, B, PGM and PST) •Can be mounted into 19-inch EIA standard rack •Optional carrying case for EFP uses



With the LC-2006 optional carrying case.

Supplied accessory: AC power cord
Optional accessories: Carrying case LC-2006/2003
Rechargeable battery pack BP-60

Specifications

Power requirements: AC 120V 50/60Hz
DC 10 to 24V (Ext. DC)
DC 12/24V with BP-60 Battery pack (1 or 2)

Power consumption: 37W (AC), 30W (DC)

Operating temperature: 0 to 40°C (32 to 104°F)

Dimensions: Approx. 482(W) × 168(H) × 266(D)mm
(19 × 6⁵/₈ × 10¹/₂ inches)

Weight: Approx. 9.5kg (20 lb 15 oz)

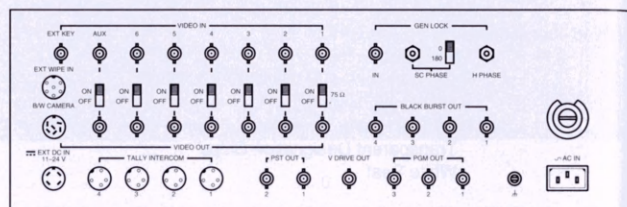
Color system: NTSC color

Switching system: Vertical blanking switcher

Effects: MIX
Dissolve by special effects control lever and PGM/PST MIX lever
WIPE
Choice of 6 wipe patterns
Wipe edge: Variable softness.
Border line: Variable hue, chroma, luminance, width and amplitude.
EXT KEY
Input signal: 0.714Vp-p (VB) or 1.0Vp-p (VBS), 75Ω, unbalanced, EXT KEY connector (BNC type)
Slicer circuit is included.
DOWNSTREAM KEYER
Genlock with PGM bus line signal, B & W CAMERA connector (6-pin)
Output signal: HD, VD, 4Vp-p, 75Ω, unbalanced
Input signal: Video 0.714Vp-p, 75Ω, unbalanced
Shadow: Wide and narrow (selectable)
BACKGROUND COLOR
Chroma: 0 to 700mVp-p (variable according to hue level)
Hue: 0° to 360°
Luminance (Y): 0 to 500mV continuously variable

Input signal: VIDEO IN 1 to 6 connectors (BNC type) × 6
0.714Vp-p (VB) or 1.0Vp-p (VBS), 75Ω, unbalanced with 75Ω termination switch (The PHASE INDICATION switch does not function with the VB input signal.)
VIDEO IN AUX connector (BNC type) × 1
1Vp-p (VBS), 75Ω, unbalanced with 75Ω termination switch
GENLOCK IN connector (BNC type) × 1
1Vp-p (VBS) or 0.286V/0.286V (black burst), 75Ω

Output signal: PGM OUT 1 to 3 connectors (BNC type) × 3
PST OUT 1, 2 connectors (BNC type) × 2
1Vp-p (VBS), 75Ω, unbalanced
VIDEO OUT connectors (BNC type) × 7
1Vp-p (VBS), 75Ω, unbalanced (Loop-through output of the corresponding VIDEO IN connector)
BLACK BURST OUT 1 to 4 connectors (BNC type) × 4
Sync, burst 0.286Vp-p, 75Ω, unbalanced
V DRIVE OUT connector (BNC type) × 1
4Vp-p, 75Ω, unbalanced



Tally/Intercom: TALLY/INTERCOM 1 to 4 connectors (DIN, 4-pin) × 4
DG: 1.5% (APL 10 to 90%)
DP: Less than 1.5° (APL 10 to 90%)
Crosstalk (SC): Over -40dB

WEX-2000

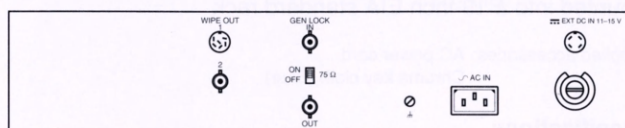
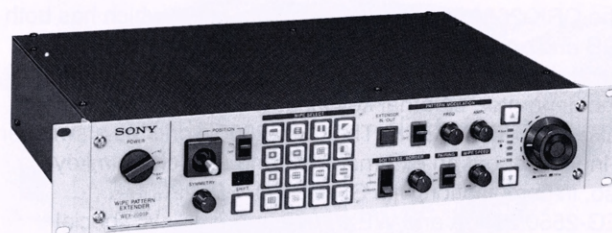
Wipe pattern extender

- The WEX-2000 is a wipe pattern extender which extends the wipe pattern versatility of the SEG-2000*, SEG-2000A and SEG-2550/2550A. The WEX-2000 provides 84 kinds of wipe patterns with various other special effect functions such as pattern modulation, pairing wipe and symmetry which can help you create an almost limitless number of special effects
- Wipe operation versatility—Mosaic, Pattern modulation, Pairing, Symmetry, Positioner, and Border line
- AC/DC operation
- Can be mounted into a 19-inch EIA standard rack
- *In the case of the SEG-2000, the BORDER/SOFT functions on the WEX-2000 and the TALLY indication on the SEG-2000 do not work.

Supplied accessory: AC power cord

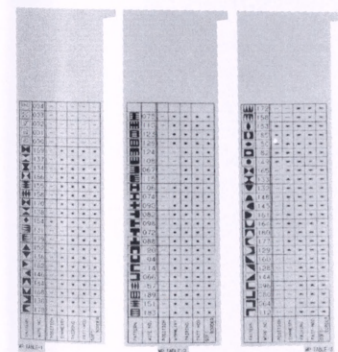
Specifications

Power requirements:	AC 120V, 50/60Hz DC 11 to 15V (Ext. DC)
Power consumption:	19W (AC), 14W (DC)
Operating temperature:	0 to 40°C (32 to 104°F)
Dimensions:	Approx. 482(W) × 88(H) × 300(D)mm (19 × 3½ × 11⅞ inches)
Weight:	Approx. 7kg (15 lb 7 oz)
Color system:	NTSC
Gen-lock input:	Sync 0.286Vp-p, Burst 0.286Vp-p
Wipe patterns:	84 kinds
Wipe outputs:	OUT-1 (6-pin) for the SEG-2000A OUT-2 (BNC) for the SEG-2000 or the CRK-2000 1.0Vp-p, 75Ω (OUT-1/2)
Wipe speed:	Approx. 0.5 to 9s
Pairing wipe:	Every other line
Pattern modulation:	Wave length and frequency are continuously variable



DME/SWITCHERS

Built-in pattern reference tables



2 Special effects systems

CRK-2000

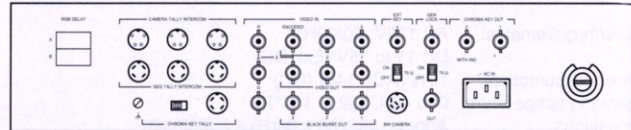
Universal chroma keyer

•The CRK-2000 is a universal chroma keyer which has both RGB and encoded chroma key functions. The CRK-2000 is provided with effect amplifier, background color generator, sync generator, external key input for telop, SC/H phase indicator for GENLOCK. The CRK-2000 works as a switcher (3-input) without an external SEG and as a chroma keyer. Also, in combination with SEG-2000, SEG-2000A, SEG-2550/2550A and WEX-2000, more artistic special effects operations can be performed •RGB/LINE input (Video 1 & 2, RGB) •HARD/NATURAL mode •Background color generator •Sync generator •SC/H phase indicator •Can be mounted into a 19-inch EIA standard rack

Supplied accessories: AC power cord
Chroma key cloth (Blue)

Specifications

Power requirements:	AC 120V, 50/60Hz
Power consumption:	29W
Operating temperature:	0 to 40°C (32 to 104°F)
Dimensions:	Approx. 482(W) × 88(H) × 300(D)mm (19 × 3 1/2 × 11 7/8 inches)
Weight:	Approx. 7kg (15 lb 7 oz)
Color system:	NTSC
Video input:	VBS 1.0Vp-p, 75Ω
RGB input:	V 1.0Vp-p, 75Ω
External key:	Video input 1.0Vp-p or 0.714Vp-p, 75Ω
Gen-lock input:	Sync 0.286Vp-p, Burst 0.286Vp-p
Video outputs:	VBS 1.0Vp-p, 75Ω
Video output DP:	1.5°
Video output DG:	1.5%
Video output frequency response:	5MHz ±1dB
Chroma key outputs:	VBS 1.0Vp-p, 75Ω
Chroma key output DP:	2.5°
Chroma key output DG:	2.5%
Chroma key output frequency response:	5MHz ±1dB
Black burst outputs:	Sync 0.286Vp-p, Burst 0.286Vp-p
Keying bandwidth:	RGB mode more than 2.0MHz, LINE mode more than 0.8MHz



LC-2003

Carrying case for CCU/monitor/WEX/CRK

•For CCU-M3/1800/1820/6000 series, WEX-2000 series, CRK-2000 series, DXF-40A/PVM-4000/PVM-411 series or CMA-7/8A series installation

Dimensions: 502(W) × 500(H) × 156(D)mm
(19⁷/₈ × 19³/₄ × 6¹/₄ inches)
Weight: 7kg (15 lb 8 oz)
Optional accessory: Rack mounting metal RMM-1800
RMM-301



LC-2003

LC-2006

Carrying case for SEG-2000/2000A

Dimensions: 520(W) × 380(H) × 240(D)mm
(20¹/₂ × 15 × 9¹/₂ inches)
Weight: 6.8kg (14 lb 15 oz)

DME/SWITCHERS

1. Monitors

1-1. Color video monitors

PVM-1954Q	112
PVM-1943MD	113
PVM-1354Q	114
PVM-1343MD	115
PVM-1351Q	116
PVM-1350	117
PVM-8044Q	118
PVM-8043MD	119
PVM-8041Q	120
PVM-8040	121
PVM-5041Q	122
PVM-3230	123
PVM-2530	124
PVM-2030	125
PVM-1390	126
PVM-1380	127
GVM-2020	128
GVM-1311Q	129
GVM-1316TSQ	130
FDL-X600	131

1-2. Monochrome video monitors

PVM-136	132
PVM-135	132
PVM-96	133
PVM-95	133
PVM-411	134

1-3. Monitor accessories

2. Projection systems

2-1. Color video projection systems

VPH-1272Q	141
VPH-1252Q	142
RVP-6000Q	143
RVP-4010Q	144
RVP-400Q	145
VPH-1042Q	146
VPH-1000Q	147
VPL-350Q	148

2-2. Video projection accessories

1-1 Color video monitors

19" PVM-1954QM (NTSC/PAL/SECAM/NTSC_{4.43})

Super Fine Pitch, EBU phosphors

- High resolution of 600TV lines at center
- Adoption of SMPTE C phosphors for monitor matching
- Switchable aspect ratio (4:3 and 16:9)
- Beam current feedback circuit for stable color reproduction
- Component (Y/R-Y/B-Y or RGB) input facility
- Auto chroma/phase setup
- Optional component serial digital interface kits available for video and audio
- On-screen display for adjustment/operation
- 6500K/9300K/User preset color selectable
- User preset function
- Comb filter NTSC
- H/V delay and Normal scan/Underscan selection
- Blue only mode
- Accepts an external sync/sync on Green
- Mountable into a 19-inch EIA standard rack with optional SLR-103

Supplied accessories: Component serial digital interface kit (Video) BKM-101C
 Component serial digital interface kit (Audio) BKM-102
 Serial remote control kit for RS-422 BKM-103
 Tuner unit TU-1040

Optional accessories: Monitor connecting cable VMC cable
 Slide rail kits SLR-103
 Composite digital monitor interface DMIF-2000

Specifications

Video signals: EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (Switching of EIA to CCIR or vice versa is automatically done)

Color system: NTSC/PAL/SECAM/NTSC_{4.43}*1 (automatically selected)

Picture tube: 52cm (20-inch), HR Trinitron tube, visible picture size 49cm (19-inch) measured diagonally, 90° deflection, SMPTE C phosphors

Horizontal resolution: 600TV lines at center (Video inputs)

Audio power output: Monaural, 0.8W with built-in speaker

Power requirements: AC 100 to 240V*2, 50/60Hz

Power consumption: 115W (with BKM-101C/102)

Dimensions: 450(W) × 457.5(H) × 503(D)mm (17³/₄ × 18¹/₈ × 19⁷/₈ inches)

Weight: Approx. 30.0kg (66 lb 2 oz)

VIDEO

LINE A Loop-through BNC:
 Composite 1.0Vp-p, sync negative, Automatic 75Ω termination*3

LINE B Loop-through BNC:
 Composite 1.0Vp-p, sync negative, Automatic 75Ω termination*3

LINE C Loop-through mini DIN 4-pin:
 Y (Luminance signal):
 1.0Vp-p, sync negative, Automatic 75Ω termination*3
 C (Chrominance signal):
 NTSC: 0.286Vp-p, Automatic 75Ω termination*3
 PAL: 0.3Vp-p, Automatic 75Ω termination*3

COMPONENT (Y/R-Y/B-Y) Loop-through BNC:
 R-Y/B-Y: 0.7Vp-p, Automatic 75Ω termination*3
 Y/Sync on Green:
 Composite 1.0Vp-p, sync negative, Automatic 75Ω termination*3

RGB Loop-through BNC:
 0.7Vp-p, Automatic 75Ω termination*3

EXTERNAL SYNC Loop-through BNC:
 4Vp-p, negative, Automatic 75Ω termination*3

AUDIO

LINE A Loop-through Phono:
 -5dBu, high impedance

LINE B Loop-through Phono:
 -5dBu, high impedance

LINE C Loop-through Phono:
 -5dBu, high impedance

COMPONENT Phono:
 -5dBu, high impedance

RGB Phono:
 -5dBu, high impedance



*1 The NTSC_{4.43} system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.

*2 UL approved for 120V operation only.

*3 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

1-1 Color video monitors

19" PVM-1943MD (NTSC/PAL/SECAM/NTSC^{4.43})

Super Fine Pitch, SMPTE C phosphors, for medical use

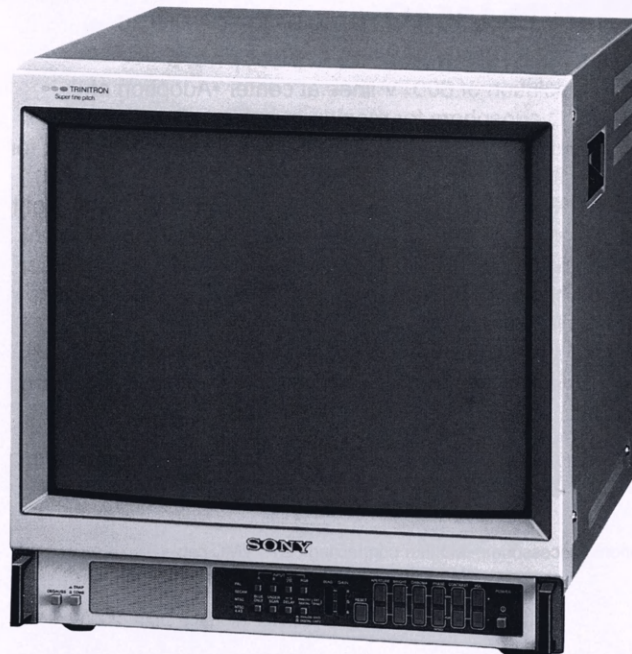
- High resolution of 600TV lines at center •Adoption of SMPTE C phosphors for monitor matching •Beam current feedback circuit for stable color reproduction •6500K/9300K color temperature selection switch •Comb filter for NTSC
- Accepts Analog/Digital RGB signals •H/V delay and Normal scan/Underscan selection •Blue only mode •Accepts an external sync
- Mountable into a 19-inch EIA standard rack with optional SLR-103 •White chassis •Complies with IEC-601/950 safety regulations

Optional accessories: Monitor connecting cable VMC cable
Slide rail kits SLR-103
Composite digital monitor interface DMIF-2000

Specifications

Video signals:	EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (Switching of EIA to CCIR or vice versa is automatically done)
Color system:	NTSC/PAL/SECAM/NTSC ^{4.43} *1 (automatically selected)
Picture tube:	52cm (20-inch), Super Fine Pitch Trinitron tube, visible picture size 49cm (19-inch) measured diagonally, 90° deflection, SMPTE C phosphors
Horizontal resolution:	600TV lines at center (Video inputs) 900 × 200 pixels (RGB inputs)
Audio power output:	Monaural, 0.6W with built-in speaker
Power requirements:	AC 120V, 50/60Hz
Power consumption:	130W max.
Dimensions:	452(W) × 461.5(H) × 502.9(D)mm (17 ⁷ / ₈ × 18 ¹ / ₄ × 19 ⁷ / ₈ inches)
Weight:	Approx. 30.0kg (66 lb 2 oz)

VIDEO	
LINE A	Loop-through BNC Composite 1.0Vp-p, sync negative Automatic 75Ω termination*3
LINE B	Loop-through BNC Composite 1.0Vp-p, sync negative, Automatic 75Ω termination*3
VTR*2	8-pin Composite 1.0Vp-p, sync negative, 75Ω
Y/C*2	Mini DIN 4-pin Y (Luminance signal): 1.0Vp-p, sync negative, 75Ω C (Chrominance signal): NTSC: 0.286Vp-p, 75Ω PAL: 0.3Vp-p, 75Ω
RGB	Loop-through BNC 0.7Vp-p, Automatic 75Ω termination*3
EXTERNAL SYNC	Loop-through BNC 4Vp-p, negative, Automatic 75Ω termination*3
AUDIO	
LINE A	Loop-through Phono -5dBu, high impedance
LINE B	Loop-through Phono -5dBu, high impedance
VTR	8-pin -5dBu, high impedance
Y/C	Phono -5dBu, high impedance
CMPTTR	9-pin D TTL, For computer equipped with digital RGB



DISPLAY
PRODUCTS

*1 The NTSC^{4.43} system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.

*2 The Y/C input has priority over the VTR input.

*3 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

1-1 Color video monitors

13" PVM-1354Q (NTSC/PAL/SECAM/NTSC_{4.43})

Super Fine Pitch, SMPTE C phosphors

- High resolution of 600TV lines at center
- Adoption of SMPTE C phosphors for monitor matching
- Switchable aspect ratio (4:3 and 16:9)
- Beam current feedback circuit for stable color reproduction
- Component (Y/R-Y/B-Y or RGB) input facility
- Auto chroma/phase setup
- Optional component serial digital interface kits available for video and audio
- On-screen display for adjustment/operation
- 6500K/9300K/User preset color temperature selection switch
- Comb filter for NTSC
- H/V delay and Normal scan/Underscan selection
- Blue only mode
- User preset function
- Accepts an external sync/sync on Green
- Mountable into a 19-inch EIA standard rack with optional MB-502B and SLR-102

Supplied accessories: Component serial digital interface kit (Video) BKM-101C
 Component serial digital interface kit (Audio) BKM-102
 Serial remote control kit for RS-422 BKM-103
 Tuner unit TU-1040

Optional accessories: Monitor connecting cable VMC cable
 Mounting bracket MB-502B
 Slide rail kits SLR-102
 Composite digital monitor interface DMIF-2000



Specifications

Video signals: EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (Switching of EIA to CCIR or vice versa is automatically done)

Color system: NTSC/PAL/SECAM/NTSC_{4.43}*1 (automatically selected)

Picture tube: 36.8cm (14-inch), HR Trinitron tube, visible picture size 33.7cm (13-inch) measured diagonally, 90° deflection, SMPTE C phosphors

Horizontal resolution: 600TV lines at center (Video inputs)

Audio power output: Monaural, 0.8W with built-in speaker

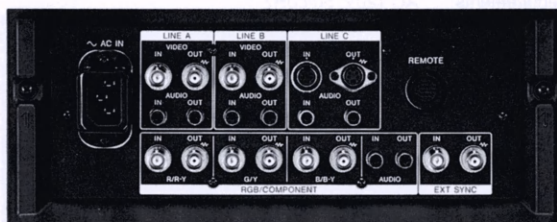
Power requirements: AC 100 to 240V*2, 50/60Hz

Power consumption: 90W max. (with BKM-101C/102: 99W)

Dimensions: 346(W) × 340(H) × 412(D)mm (13⁵/₈ × 13¹/₂ × 16¹/₄ inches)

Weight: Approx. 16.7kg (36 lb 13 oz)

VIDEO	
LINE A	Loop-through BNC Composite 1.0Vp-p, sync negative, Automatic 75Ω termination*3
LINE B	Loop-through BNC Composite 1.0Vp-p, sync negative, Automatic 75Ω termination*3
LINE C	Mini DIN 4-pin Y (Luminance signal): 1.0Vp-p, sync negative, Automatic 75Ω termination*3 C (Chrominance signal): NTSC: 0.286Vp-p, Automatic 75Ω termination*3 PAL: 0.3Vp-p, Automatic 75Ω termination*3
Component (Y/R-Y/B-Y)	Loop-through BNC R-Y/B-Y: 0.7Vp-p, Automatic 75Ω termination*3 Y/Sync on Green: Composite 1.0Vp-p, sync negative, Automatic 75Ω termination*3
RGB	Loop-through BNC 0.7Vp-p, Automatic 75Ω termination*3
EXTERNAL SYNC	Loop-through BNC 4Vp-p negative, Automatic 75Ω termination*3
AUDIO	
LINE A	Loop-through Phono -5dBu, high impedance
LINE B	Loop-through Phono -5dBu, high impedance
LINE C	Loop-through Phono -5dBu, high impedance
COMPONENT	Phono -5dBu, high impedance
RGB	Phono -5dBu, high impedance



*1 The NTSC_{4.43} system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.

*2 UL approved for 120V operation only.

*3 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

1-1 Color video monitors

13" PVM-1343MD (NTSC/PAL/SECAM/NTSC_{4.43})

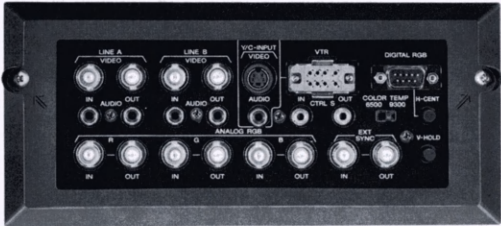
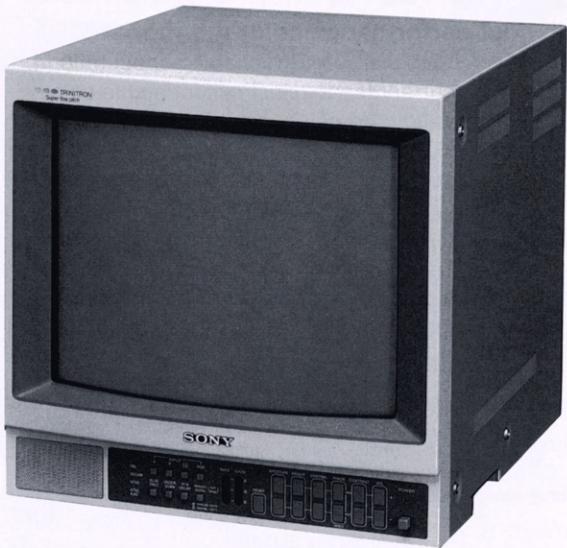
Super Fine Pitch, SMPTE C phosphors, for medical use

- High resolution of 600TV lines at center/900 × 200 pixels
- Adoption of SMPTE C phosphors for monitor matching
- Beam current feedback circuit for stable color reproduction
- 6500K/9300K color temperature selection switch •Comb filter for NTSC •Accepts Analog/Digital RGB signals •H/V delay and Normal scan/Underscan selection •Blue only mode
- Accepts an external sync •Mountable into a 19-inch EIA standard rack with optional MB-502B and SLR-102 •White chassis
- Complies with IEC-601/950 safety regulations

Optional accessories: Monitor connecting cable VMC cable
Mounting bracket MB-502B
Slide rail kits SLR-102
Composite digital monitor interface DMIF-2000

Specifications

Video signals:	EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (Switching of EIA to CCIR or vice versa is automatically done)
Color system:	NTSC/PAL/SECAM/NTSC _{4.43} *1 (automatically selected)
Picture tube:	36.8cm (14-inch), Super Fine Pitch Trinitron tube, visible picture size 33.7cm (13-inch) measured diagonally, 90° deflection, SMPTE C phosphors
Horizontal resolution:	600TV lines at center (Video inputs) 900 × 200 pixels (RGB inputs)
Audio power output:	Monaural, 0.6W with built-in speaker
Power requirements:	AC 120V, 50/60Hz
Power consumption:	99W max.
Dimensions:	346(W) × 340(H) × 412(D)mm (13 ⁵ / ₈ × 13 ¹ / ₂ × 16 ¹ / ₄ inches) Approx. 16.5kg (36 lb 6 oz)
Weight:	
VIDEO	
LINE A	Loop-through BNC Composite 1.0Vp-p, sync negative, Automatic 75Ω termination*3
LINE B	Loop-through BNC Composite 1.0Vp-p, sync negative, Automatic 75Ω termination*3
VTR*2	8-pin Composite 1.0Vp-p, sync negative, 75Ω
Y/C*2	Mini DIN 4-pin Y (Luminance signal): 1.0Vp-p, sync negative, 75Ω C (Chrominance signal): NTSC: 0.286Vp-p, 75Ω PAL: 0.3Vp-p, 75Ω
RGB	Loop-through BNC 0.7Vp-p, Automatic 75Ω termination*3
EXTERNAL SYNC	Loop-through BNC 4Vp-p, negative, Automatic 75Ω termination*3
AUDIO	
LINE A	Loop-through Phono -5dBu, high impedance
LINE B	Loop-through Phono -5dBu, high impedance
VTR	8-pin -5dBu, high impedance
Y/C	Phono -5dBu, high impedance
CMPTR	9-pin D TTL, For computer equipped with digital RGB



DISPLAY
PRODUCTS

*1 The NTSC_{4.43} system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.

*2 The Y/C input has priority over the VTR input.

*3 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

1-1 Color video monitors

13" PVM-1351Q (NTSC/PAL/SECAM/NTSC_{4.43})

High cost performance color monitor

- A variety of input facilities •Switchable aspect ratio (4:3 and 16:9) •Beam current feedback circuit for stable color reproduction •Auto chroma/phase setup •Optional component serial digital interface kits available for video and audio •On-screen display for adjustment/operation •6500K/9300K/User preset color temperature selection switch •Comb filter for NTSC •Component (Y/R-Y/B-Y) or RGB input facility •H/V delay and Normal scan/Underscan selection •Blue only mode •Accepts an external sync
- Mountable into a 19-inch EIA standard rack with optional MB-502B and SLR-102

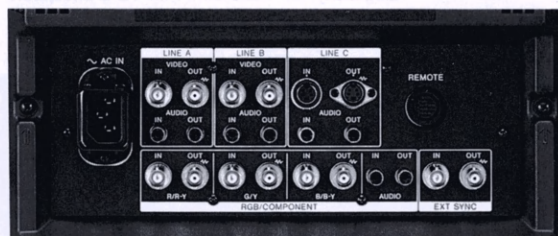
Supplied accessories: Component serial digital interface kit (Video) BKM-101C
Component serial digital interface kit (Audio) BKM-102
Serial remote control kit for RS-422 BKM-103
Tuner unit TU-1040

Optional accessories: Monitor connecting cable VMC cable
Mounting bracket MB-502B
Slide rail kits SLR-102
Composite digital monitor interface DMIF-2000



Specifications

Video signals:	EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (switching of EIA to CCIR or vice versa is automatically done)
Color system:	NTSC/PAL/SECAM/NTSC _{4.43} *1
Picture tube:	36.8cm (14-inch) Fine Pitch Trinitron tube, visible picture size 33.7cm (13-inch) measured diagonally, 90° deflection
Horizontal resolution:	450TV lines at center (Video inputs) 640 × 200 pixels (RGB inputs)
Audio power output:	0.6W with built-in speaker, monaural
Power requirements:	AC 100 to 240V*2, 50/60Hz
Power consumption:	90W max. (with BKM-101C/102: 99W)
Dimensions:	346(W) × 340(H) × 411.5(D)mm (13 ⁵ / ₈ × 13 ¹ / ₂ × 16 ¹ / ₄ inches)
Weight:	Approx. 16.7kg (36 lb 13 oz)
VIDEO	
LINE A	Loop-through BNC Composite 1Vp-p, sync negative, Automatic 75Ω termination*3
LINE B	Loop-through BNC Composite 1Vp-p, sync negative, Automatic 75Ω termination*3
LINE C	Loop-through mini DIN 4-pin Y (Luminance signal): 1Vp-p, sync negative, Automatic 75Ω termination*3 C (Chrominance signal): 0.286Vp-p (NTSC), 0.3Vp-p (PAL), Automatic 75Ω termination*3
COMPONENT (Y/R-Y/B-Y)	Loop-through BNC R-Y/B-Y: 0.7Vp-p, Automatic 75Ω termination*3 Y/Sync on Green: Non-composite: 0.7Vp-p Composite: 1Vp-p, sync negative, Automatic 75Ω termination*3
RGB	Loop-through BNC 0.7Vp-p, Automatic 75Ω termination*3
EXTERNAL SYNC	Loop-through BNC 4Vp-p, negative, Automatic 75Ω termination*3
AUDIO	
LINE A	Loop-through Phono -5dBu, high impedance
LINE B	Loop-through Phono -5dBu, high impedance
LINE C	Loop-through Phono -5dBu, high impedance
COMPONENT	Phono -5dBu, high impedance
RGB	Phono -5dBu, high impedance



*1 The NTSC_{4.43} system refers to a NTSC color system in which the frequency is modified to 4.43MHz.

*2 UL approved for 120V operation only.

*3 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

1-1 Color video monitors

13" PVM-1350 (NTSC)

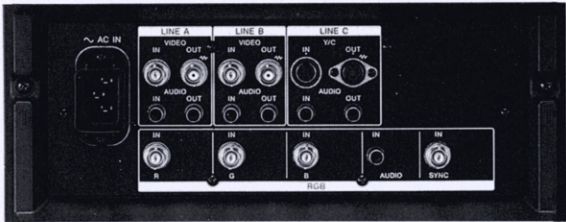
Color monitor for general use

- Beam current feedback circuit for stable color reproduction
- Auto chroma/phase setup
- On-screen display for adjustment/operation
- 6500K color temperature
- Comb filter for NTSC
- Dynamic picture for black level stability
- Accepts an RGB video signal
- Blue only mode
- Mountable into a 19-inch EIA standard rack with optional MB-502B and SLR-102

Supplied accessories: Tuner unit TU-1040
Optional accessories: Monitor connecting cable VMC cable
Mounting bracket MB-502B
Slide rail kits SLR-102
Composite digital monitor interface DMIF-2000

Specifications

Video signals:	EIA 525 lines, 60 fields
Color system:	NTSC
Picture tube:	36.8cm (14-inch), Fine pitch Trinitron tube, visible picture size 33.7cm (13-inch) measured diagonally, 90° deflection,
Horizontal resolution:	450TV lines at center (Video inputs)
Audio power output:	Monaural, 0.8W with built-in speaker
Power requirements:	AC 100 to 240V*1, 50/60Hz
Power consumption:	90W max.
Dimensions:	346(W) × 340(H) × 411.5(D)mm (13 ⁵ / ₈ × 13 ¹ / ₂ × 16 ¹ / ₄ inches)
Weight:	Approx. 16.7kg (36 lb 13 oz)
VIDEO	
LINE A	Loop-through BNC Composite 1.0Vp-p, sync negative, Automatic 75Ω termination*2
LINE B	Loop-through BNC Composite 1.0Vp-p, sync negative, Automatic 75Ω termination*2
LINE C	Loop-through mini DIN 4-pin Y (Luminance signal): 1.0Vp-p, sync negative, Automatic, 75Ω termination*2 C (Chrominance signal): 0.286Vp-p, Automatic, 75Ω termination*2
RGB	BNC 0.7Vp-p, 75Ω
AUDIO	
LINE A	Loop-through Phono -5dBu, high impedance
LINE B	Loop-through Phono -5dBu, high impedance
LINE C	Loop-through Phono -5dBu, high impedance
RGB	Loop-through Phono -5dBu, high impedance



DISPLAY
PRODUCTS

*1 UL approved for 120V operation only.
*2 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

1-1 Color video monitors

8" PVM-8044Q (NTSC/PAL/SECAM/NTSC4.43)

- Ideal for picture evaluation in studio, ENG/EFP applications
- HR(High Resolution) CRT assures a high resolution of 450 TV lines at center (composite video)
- Three inputs: Component(Y/R-Y/B-Y or RGB), LINE A(Composite video or Y/C), LINE B(Composite video)
- Employs a beam current feedback circuit for stability in the color balance
- Accepts external sync and sync on Green
- Blue only, H/V delay, Underscan capability
- 19-inch EIA standard rack mountable with a second PVM-8044Q or the optional blank panel MB-509 by using the optional MB-507 rack mounting bracket
- AC/DC operation capability using one or two battery pack NP-1Bs or a BP-90A with DC-210 adapter
- Wired remote control capability
- Built-in speaker
- Tally input
- Can be used with the optional DMIF-1000 for Component Serial Digital Video signal input and DMIF-2000 for Composite Serial Digital Video Signal input

Supplied accessories: AC power cord, Mini DIN 8-pin connector with cable (cable length 350mm, 13 7/8 inches), Tally number plates (12 pcs: No.1 to 5, A, B, C, P, R, white x 2 pcs) Operation manual

Optional accessories: TV tuner unit TU-1040
Monitor ENG kit VF-505 (Monitor hood and cord reel)
Rack mounting bracket MB-507
Blank panel MB-509
Rechargeable battery pack NP-1B
Rechargeable battery pack BP-90A
Battery case (for BP-90A) DC-210
Battery charger (for four NP-1Bs) BC-1WD
Battery charger (for four NP-1Bs and four BP-90A) BC-410
Component digital monitor interface DMIF-1000
Composite digital monitor interface DMIF-2000

Specifications

Video signals: EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (Switching of EIA to CCIR or vice versa is automatically done)

Color system: NTSC/PAL/SECAM/NTSC4.43*1 (automatically selected)

Picture tube: 22cm (9-inch), HR Trinitron tube, visible picture size 19.7cm (8-inch) measured diagonally, 70° deflection

Horizontal resolution: 450TV lines at center

Audio power output: Monaural, 0.5W, 8Ω (nominal)

Power requirements: AC: 100 to 240V*2, 50/60Hz, DC:12V

Power consumption: AC: 45W max
DC: 38W

Dimensions: Approx. 217(W) x 217(H) x 352.5(D)mm (8 5/8 x 8 5/8 x 14 inches)

Weight: Approx. 7.5kg (16 lb 9.5oz) without batteries

VIDEO

LINE A

Composite*3: Loop-through BNC
1.0Vp-p, sync negative, Automatic 75Ω termination*4

Y/C*3: Loop-through Mini DIN 4-pin
Y(luminance): 1Vp-p, sync negative, Automatic 75Ω termination*4
C(chrominance):
NTSC: 0.286Vp-p, Automatic 75Ω termination*4
PAL: 0.3Vp-p, Automatic 75Ω termination*4

LINE B

Composite: Loop-through BNC
1.0Vp-p, sync negative, Automatic 75Ω termination*4

Component*5

Red/R-Y: Non-composite: 0.7Vp-p, 75Ω
Sync on Green/Green/Y:
Composite: 1Vp-p, sync negative, 75Ω
Non-composite: 0.7Vp-p, 75Ω
Blue/B-Y: Non-composite: 0.7Vp-p, 75Ω



EXTERNAL SYNC: Loop-through BNC
4Vp-p, negative, Automatic 75Ω termination*4

TALLY INPUT: Mini DIN 8-pin

DC INPUT: XLR 4-pin

AUDIO

LINE A: Loop-through Phono
-5dBu, high impedance

LINE B: Loop-through Phono
-5dBu, high impedance

Component: Phono:
-5dBu, high impedance

*1 The NTSC4.43 system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.

*2 UL approved for 120V operation only.

*3 The Y/C IN has priority over the Composite video input.

*4 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

*5 RGB and Y/R-Y/B-Y input is switch selectable.

1-1 Color video monitors

8" PVM-8043MD (NTSC/PAL/NTSC_{4.43})

Color video monitors

- High resolution of 450TV lines at center •Beam current feedback circuit for stable color reproduction •Color temperature 6500K •19-inch EIA standard rack mountable with a second PVM-9043MD or the optional blank panel MB-509 by using an optional MB-507 rack mounting bracket
- White chassis •Complies with IEC-601 safety regulation

Supplied accessories: Splash proof adapter
Front panel cover
Operation manual

Optional accessories: Rack mounting bracket MB-507
Blank panel MB-509

Specifications

General

Video signals: EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (Switching of EIA to CCIR or vice versa is automatically done)

Color system: NTSC/PAL/NTSC_{4.43}*1 (automatically selected)

Picture tube: 22cm (9-inch) HR Trinitron tube, visible picture size 19.7cm (8-inch) measured diagonally, 70° deflection 450TV lines

Horizontal resolution: 450TV lines

Audio power output: Monaural, 0.5W with built-in speaker

Power requirements: AC 100 to 240V*2, 50/60Hz

Power consumption: 45W

Dimensions: 217(W) × 217(H) × 352.5(D)mm (8⁵/₈ × 8⁵/₈ × 14 inches)

Weight: Approx. 7.8kg (17 lb 3 oz)

Video

LINE A

Composite*3: Loop-through BNC
1.0Vp-p, sync negative, Automatic 75Ω termination*4

Y/C*3: Loop-through Mini DIN 4-pin
Y(luminance): 1Vp-p, sync negative, Automatic 75Ω termination*4
C(chrominance): NTSC: 0.286Vp-p, Automatic 75Ω termination*4
PAL: 0.3Vp-p, Automatic 75Ω termination*4

LINE B

Composite: Loop-through BNC
1.0Vp-p, sync negative, Automatic 75Ω termination*4

RGB/Component*5 BNC

Red/R-Y: Non-composite: 0.7Vp-p, 75Ω
Sync on Green/Green/Y: Composite: 1Vp-p, sync negative, 75Ω
Non-composite: 0.7Vp-p, 75Ω

Blue/B-Y: Non-composite: 0.7Vp-p, 75Ω

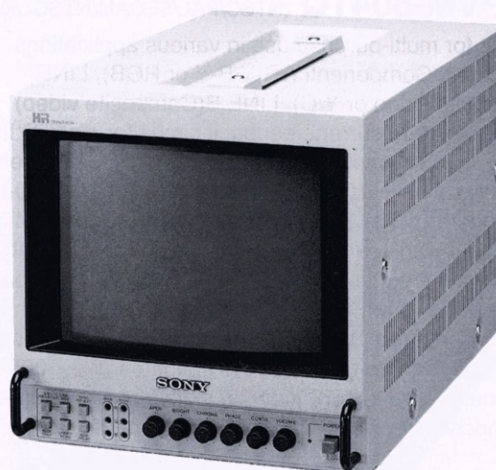
EXTERNAL SYNC: Loop-through BNC
4Vp-p, negative, Automatic 75Ω termination*4

Audio

LINE A: Loop-through Phono,
-5dBu, high impedance

LINE B: Loop-through Phono
-5dBu, high impedance

Component: Phono:
-5dBu, high impedance



DISPLAY
PRODUCTS

*1 The NTSC_{4.43} system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.

*2 UL approved for 120V operation only.

*3 The Y/C IN has priority over the VIDEO IN.

*4 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

*5 RGB and Y/R-Y/B-Y input is switch selectable.

1-1 Color video monitors

8" PVM-8041Q (NTSC/PAL/SECAM/NTSC_{4.43})

- Suitable for multi-purpose use in various applications
- Three input: Component(Y/R-Y/B-Y or RGB), LINE A(Composite video or Y/C), LINE B(Composite video)
- Employs a beam current feedback circuit for stability in the color balance
- Accepts external sync and sync on Green
- Blue only mode, H/V delay, Underscan capability
- 19-inch EIA standard rack mountable with a second PVM-8041Q or the optional blank panel MB-509 by using the optional MB-507 rack mounting bracket
- AC/DC operation capability using one or two battery pack NP-1Bs or BP-90A with DC-210 adapter
- Wired remote control capability
- Built-in speaker
- Tally input
- Can be used with the optional DMIF-1000 for Component Serial Digital Video signal input and DMIF-2000 for Composite Serial Digital Video signal input

Supplied accessories: AC power cord, Mini DIN 8-pin connector with cable (cable length 350mm, 13⁷/₈ inches), Tally number plates (12 pcs: No.1 to 5, A, B, C, P, R, white × 2 pcs) Operation manual

Optional accessories: TV tuner unit TU-1040
Monitor ENG kit VF-505
(Monitor hood and cord reel)
Rack mounting bracket MB-507
Blank panel MB-509
Rechargeable battery pack NP-1B
Rechargeable battery pack BP-90A
Battery case (for BP-90A) DC-210
Battery charger (for four NP-1Bs) BC-1WD
Battery charger (for four NP-1Bs and four BP-90A) BC-410
Component digital monitor interface DMIF-1000
Composite digital monitor interface DMIF-2000

Specifications

Video signals: EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (Switching of EIA to CCIR or vice versa is automatically done)

Color system: NTSC/PAL/SECAM/NTSC_{4.43}*1 (automatically selected)

Picture tube: 22cm (9-inch), Trinitron tube, visible picture size 19.7cm (8-inch) measured diagonally, 70° deflection

Horizontal resolution: 250TV lines at center

Audio power output: Monaural, 0.5W, 8Ω (nominal)

Power requirements: AC: 100 to 240V*2, 50/60Hz, DC:12V

Power consumption: AC: 45W max
DC: 38W

Dimensions: Approx. 217(W) × 217(H) × 352.5(D)mm (8⁵/₈ × 8⁵/₈ × 14 inches)

Weight: Approx. 7.5kg (16 lb 9.5oz)

VIDEO

LINE A

Composite*3: Loop-through BNC
1.0Vp-p, sync negative,
Automatic 75Ω termination*4

Y/C*3: Loop-through Mini DIN 4-pin
Y(luminance): 1Vp-p, sync negative,
Automatic 75Ω termination*4
C(chrominance):
NTSC:0.286Vp-p, Automatic 75Ω termination*4
PAL: 0.3Vp-p, Automatic 75Ω termination*4

LINE B

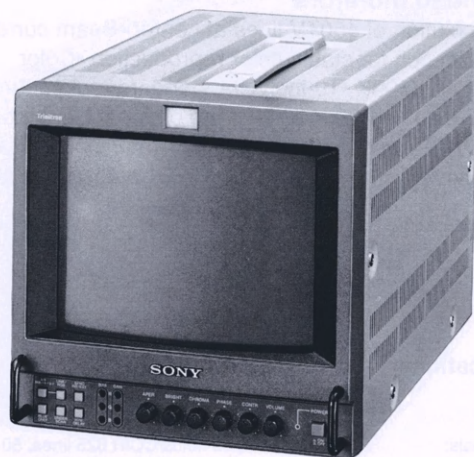
Composite: Loop-through BNC
1.0Vp-p, sync negative,
Automatic 75Ω termination*4

Component*5 BNC
Red/R-Y: Non-composite: 0.7Vp-p, 75Ω
Sync on Green/Green/Y:

Composite: 1Vp-p, sync negative, 75Ω
Non-composite: 0.7Vp-p, 75Ω
Blue/B-Y: Non-composite: 0.7Vp-p, 75Ω

EXTERNAL SYNC

Loop-through BNC
4Vp-p, negative, Automatic 75Ω termination*4



TALLY INPUT	Mini DIN 8-pin
DC INPUT	XLR 4-pin, 12V
AUDIO	
LINE A	Loop-through Phono -5dBu, high impedance
LINE B	Loop-through Phono -5dBu, high impedance
Component	Phono: -5dBu, high impedance

*1 The NTSC_{4.43} system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.

*2 UL approved for 120V operation only.

*3 The Y/C IN has priority over the Composite video input.

*4 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

*5 RGB and Y/R-Y/B-Y input is switch selectable.

1-1 Color video monitors

8" PVM-8040 (NTSC)

- Can be used as basic monitoring device
- Employs a beam current feedback circuit for stability in the color balance
- Composite video or Y/C input with audio input
- 19-inch EIA standard rack mountable with a second PVM-8040 or the optional blank panel MB-509 by using the optional MB-507 rack mounting bracket
- Built-in speaker

Supplied accessories: AC power cord, Operation manual

Optional accessories: TV tuner unit TU-1040

Rack mounting bracket MB-507

Blank panel MB-509

Composite digital monitor interface DMIF-2000

Specifications

Video signals: EIA 525 lines, 50 fields
 Color system: NTSC
 Picture tube: 22cm (9-inch), Trinitron tube, visible picture size 19.7cm (8-inch) measured diagonally, 70° deflection
 Horizontal resolution: 250TV lines at center
 Audio power output: Monaural, 0.5W, 8Ω (nominal)
 Power requirements: AC: 100 to 240V*1, 50/60Hz
 Power consumption: 45W max
 Dimensions: Approx. 217(W) × 217(H) × 352.5(D)mm (8⁵/₈ × 8⁵/₈ × 14 inches)
 Weight: Approx. 7.5kg (16 lb 9.5oz)

VIDEO

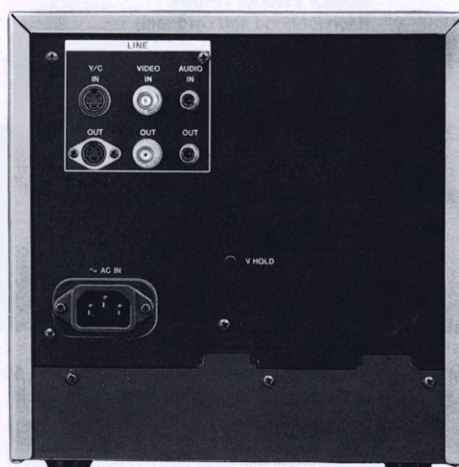
LINE

Composite*2: Loop-through BNC
 1.0Vp-p, sync negative,
 Automatic 75Ω termination*3
 Y/C*2: Loop-through Mini DIN 4-pin
 Y(luminance): 1Vp-p, sync negative,
 Automatic 75Ω termination*3
 C(chrominance):
 0.286Vp-p, Automatic 75Ω termination*3

AUDIO

LINE

Loop-through Phono
 -5dBu, high impedance



DISPLAY
PRODUCTS

*1 UL approved for 120V operation only.

*2 The Y/C IN has priority over the composite video input.

*3 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

1-1 Color video monitors

5" PVM-5041QM (NTSC/PAL/SECAM/NTSC^{4,43})

- Suitable for picture confirmation in ENG/EPF application and multiple camera monitoring
- Two input: component (Y/R-Y/B-Y or RGB) input and composite video input
- Employs a beam current feedback circuit for stability in the color balance
- Accepts external sync and sync on Green
- Blue only, H/V delay, Underscan capability
- 19-inch EIA standard rack mountable with another two units of PVM-5041Q or two optional blank panel MB-508 by using the optional MB-507 rack mounting bracket
- AC/DC operation capability using one battery pack NP-1B or a BP-90A with DC-210 adapter
- Wired remote control capability
- Built-in speaker
- Tally input
- Can be used with the optional DMIF-1000 for Component Serial Digital Video signal input and DMIF-2000 for Composite Serial Digital Video signal input

Supplied accessories: AC power cord

Mini DIN 8-pin connector with cable
(cable length 350mm, 13⁷/₈ inches)
Operation manual

Optional accessories: TV tuner unit TU-1040

Monitor ENG kit VF-504

(Monitor hood and cord reel)

Rack mounting bracket MB-507

Blank panel MB-508

Rechargeable battery pack NP-1B

Rechargeable battery pack BP-90A

Battery case (for BP-90A) DC-210

Battery charger (for four NP-1Bs) BC-1WD

Battery charger (for four NP-1Bs and four BP-90As)

BC-410

Component digital monitor interface DMIF-1000

Composite digital monitor interface DMIF-2000

Specifications

Video signals:	EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (Switching of EIA to CCIR or vice versa is automatically done)
Colour system:	NTSC/PAL/SECAM/NTSC ^{4,43} *1 (automatically selected)
Picture tube:	14.7cm (6-inch), Trinitron tube, visible picture size 13cm (5-inch) measured diagonally, 70° deflection
Horizontal resolution:	250TV lines at center
Audio power output:	Monaural, 0.5W, 8Ω (nominal)
Power requirements:	AC: 100 to 240V*2, 50/60Hz, DC: 12V
Power consumption:	AC: 42W max DC: 40W
Dimensions:	Approx. 146(W) × 173(H) × 352.5(D)mm (5 ³ / ₄ × 6 ⁷ / ₈ × 14 inches)
Weight:	Approx. 5.5kg (12 lb 2 oz)

VIDEO

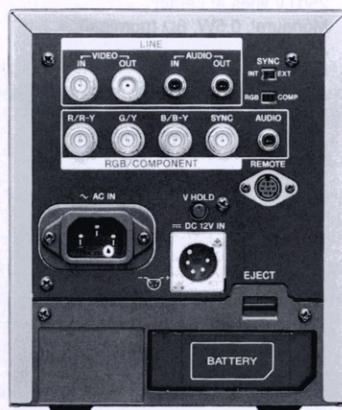
LINE	Loop-through BNC Composite: 1.0Vp-p, sync negative, Automatic 75Ω termination*3
Component*4	BNC
Red/R-Y:	Non-composite: 0.7Vp-p, 75Ω
Green/Sync on Green/Y:	Composite: 1Vp-p, sync negative, 75Ω Non-composite: 0.7Vp-p, 75Ω
Blue/B-Y:	Non-composite: 0.7Vp-p, 75Ω

EXTERNAL SYNC

BNC
4Vp-p, negative, 75Ω

AUDIO

LINE	Loop-through Phono -5dBu, high impedance
Component	Phono -5dBu, high impedance



*1 The NTSC^{4,43} system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.

*2 UL approved for 120V operation only.

*3 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

*4 RGB and Y/R-Y/B-Y input is switch selectable.

1-1 Color video monitors

32" PVM-3230 (NTSC)

•The cubic style •A high resolution of 650TV lines (composite video)/640 × 200 pixels (RGB input) •Accepts composite video, Y/C, and Analog/Digital RGB signals •Accepts external sync and sync on Green •Memorizes the adjusted picture and sound settings for each input, and 4 sets of global settings for all inputs •Can be used with IBM PC with CGA card •Touch key control and supplied remote control unit RM-785

Optional accessories: Speakers: SS-X6A, APM-X5A
TV tuner unit: ST-92TV with RM U-72, TU-1040

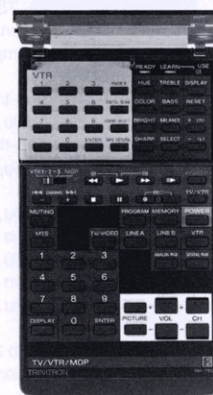
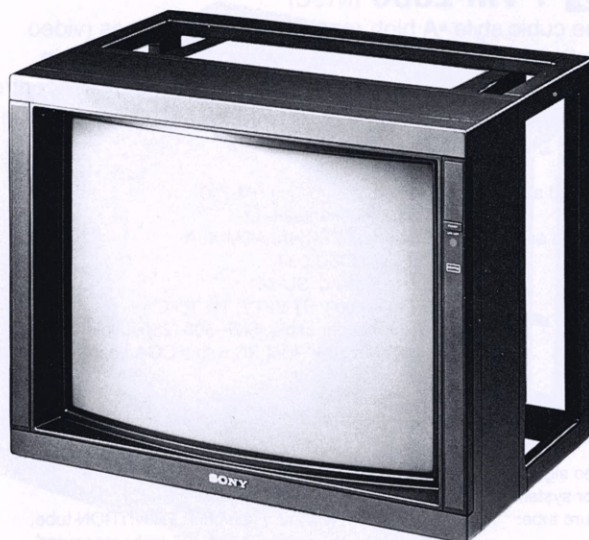
Specifications

Video signals: EIA 525 lines, 60 fields
Color system: NTSC
Picture tube: 86.3cm (34-inch) fine pitch black TRINITRON tube, visible picture size 81.28cm (32-inch) measured diagonally, 110° deflection

Horizontal resolution: 650TV lines (composite video), 640 × 200 pixels/2000 characters (RGB)
Audio power output: 15W max. (with external speakers, 8 to 16Ω)
Power requirements: AC 120V, 50/60Hz
Power consumption: 220W max.
Dimensions: Approx. 841(W) × 629(H) × 595(D)mm (32¹/₈ × 24⁷/₈ × 23¹/₂ inches)

Weight: Approx. 84kg (185 lb 3 oz)

VIDEO		8-pin
VTR		Composite: 1Vp-p, sync negative, 75Ω Loop-through Mini DIN 4-pin
LINE A ^{*1}		Y (Luminance signal): 1Vp-p, sync negative C (Chrominance signal): 0.286Vp-p, Automatic 75Ω termination ^{*3} Loop-through BNC Composite: 1Vp-p, sync negative, Automatic 75Ω termination ^{*3}
LINE B ^{*1}		Loop-through Mini DIN 4-pin Y (Luminance signal): 1.0Vp-p, sync negative C (Chrominance signal): 0.286Vp-p, Automatic 75Ω termination ^{*3} Loop-through BNC Composite: 1.0Vp-p, sync negative, Automatic 75Ω termination ^{*3}
RGB		
ANALOG RGB		Loop-through BNC R, B: 0.7Vp-p, Automatic 75Ω termination ^{*3} G/Sync on G ^{*2} : 0.7Vp-p or 1.0Vp-p, sync negative, Automatic 75Ω termination ^{*3}
DIGITAL RGB		D-sub 9-pin TTL level
AUDIO		
LINE A		Loop-through Phono -5dBu, high impedance, stereo
LINE B		Loop-through Phono -5dBu, high impedance, stereo
VTR		8-pin -5dBu, high impedance
ANALOG RGB		Loop-through Phono -5dBu, high impedance
DIGITAL RGB		Phono -5dBu, high impedance, monaural



RM-785
(Supplied)

*1 The Y/C input has priority over the composite input.

*2 External or internal sync (Green or Sync on Green) can be selected in the on-screen display mode.

*3 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

1-1 Color video monitors

25" PVM-2530 (NTSC)

•The cubic style •A high resolution of 560TV lines (video input), 2000 characters (RGB input) •Y/C input •Built-in interface for IBM PC with a CGA adaptor •Touch key control and supplied remote control unit RM-739 •Three video/audio inputs and 25-pin RGB input (Analog/TTL)

Supplied accessories: Remote control unit RM-739

Operation manual

Optional accessories: Speakers: SS-X6A, APM-X5A

Tilt swivel: SU-539

Monitor stand: SU-541

TV tuner unit: ST-92TV, TU-1040

Color monitor cable: SMF-500 (25pin/9pin, 2m)
(PVM-2530—IBM PC with a CGA adaptor)

Specifications

Video signals: EIA 525 lines, 60 fields

Color system: NTSC

Picture tube: 68.58cm (27-inch) fine pitch TRINITRON tube,
visible picture size 63.5cm (25-inch) measured
diagonally, 114° deflection

Horizontal resolution: 560TV lines (video input), 2000 characters
(RGB input)

Audio power output: 15W max. (with external speakers, 8Ω)

Power requirements: AC 120V, 50/60Hz

Power consumption: 180W max.

Dimensions: 653(W) × 508(H) × 491(D)mm
(25³/₄ × 20 × 19³/₈ inches)

Weight: 53kg (116 lb 14 oz)

VIDEO

LINE A Loop-through BNC
Composite: 1Vp-p, sync negative, 75Ω switchable

LINE B Video:
Loop-through BNC
Composite: 1Vp-p, sync negative, 75Ω switchable

VTR IN
Y/C (S VIDEO)*: Mini DIN 4-pin:
Y (Luminance signal): 1Vp-p, sync negative, 75Ω
C (Chrominance signal): 0.286Vp-p (burst signal),
75Ω

VTR*: 8-pin
Composite: 1.0Vp-p, sync negative, 75Ω

AUDIO

LINE A Loop-through Phono (×2)
-5dBu, high impedance

LINE B Loop-through Phono (×2)
-5dBu, high impedance

VTR 8-pin
-5dBu, high impedance more than 47kΩ, monaural

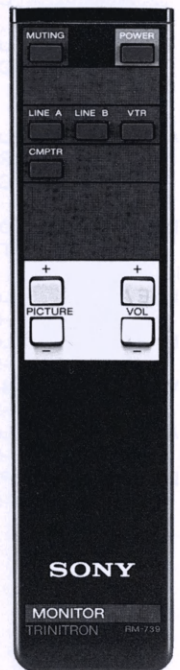
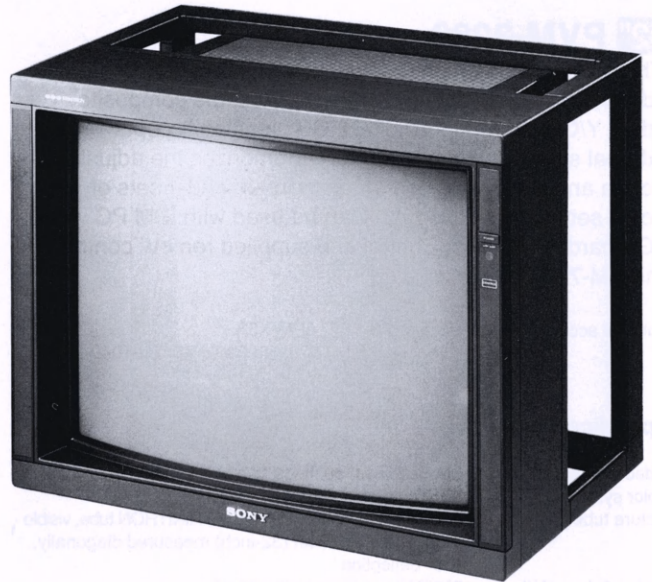
Y/C Phono
-5dBu, high impedance

DIGITAL RGB Phono
-5dBu, high impedance

CMPTR

CMPTR IN D-sub 25-pin
For computer equipped with analog or digital RGB

*VTR or S-VIDEO can be selected via the selection switch.



RM-739

1-1 Color video monitors

20" PVM-2030 (NTSC)

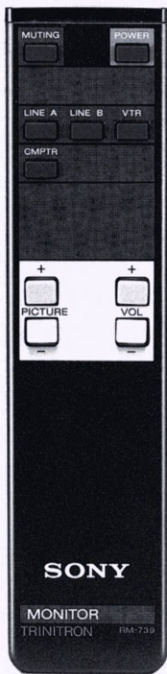
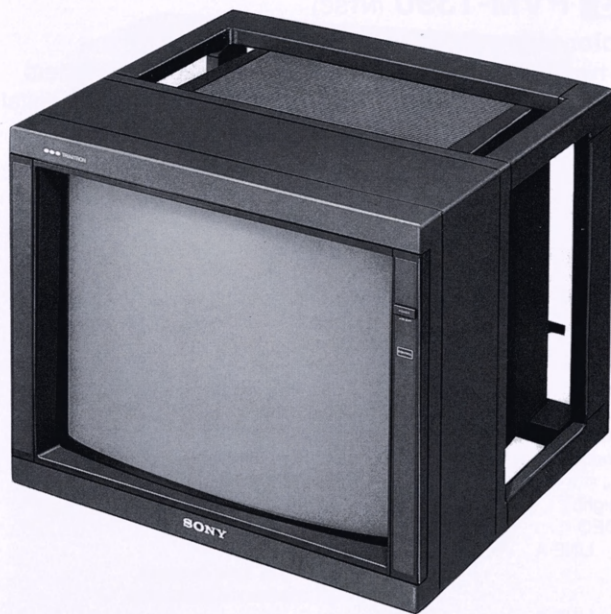
•The cubic style •A high resolution of 560TV lines (video input), 2000 characters (RGB input) •Y/C input •Built-in interface for IBM PC with a CGA card •Touch key control and supplied remote control unit RM-739 available for easy operation •Three video/audio inputs and 25-pin RGB input (Analog/TTL)

- Supplied accessories: Remote control unit RM-739
Operation manual
- Optional accessories: Speakers: SS-X6A, APM-X5A
Tilt swivel: SU-538
Monitor stand: SU-540
TV tuner unit: ST-92TV, TU-1040
color monitor cable: SMF-500 (25-pin/9-pin, 2m)
(PVM-2030 IBM PC with a CGA adaptor)

Specifications

Video signals:	EIA 525 lines, 60 fields
Color system:	NTSC
Picture tube:	54.5cm (21-inch), fine pitch Trinitron tube, visible picture size 50.6cm (20-inch) measured diagonally, 100° deflection
Horizontal resolution:	560TV lines (video input), 2000 characters (RGB input)
Audio power output:	7W max. (with external speakers), 8Ω (nominal)
Power requirements:	AC 120V, 50/60Hz
Power consumption:	150W max
Dimensions:	516(W) × 409(H) × 481(D)mm (20 ³ / ₈ × 16 ¹ / ₈ × 19 inches)
Weight:	30.5kg (67 lb 4 oz)
VIDEO	
LINE A	Loop-through BNC Composite: 1.0Vp-p, sync negative, 75Ω switchable
LINE B	
Video:	Loop-through BNC Composite: 1.0Vp-p, sync negative, 75Ω switchable
VTR IN	
Y/C (S VIDEO)*:	Loop-through Mini DIN 4-pin Y (luminance signal): 1Vp-p, sync negative, 75Ω switchable C (chrominance signal): 0.286Vp-p (burst signal), 75Ω
VTR*:	8-pin Composite: 1.0Vp-p, sync negative, 75Ω
AUDIO	
LINE A	Loop-through Phono (×2) -5dBu, high impedance
LINE B	Loop-through Phono (×2) -5dBu, high impedance
VTR	8-pin -5dBu, high impedance more than 47kΩ, monaural
DIGITAL RGB	Phono -5dBu, high impedance:
CMPTR	
CMPTR IN	D-sub 25-pin For computer equipped with analog or digital RGB

*VTR or S-Video can be selected via the selection switch.



RM-739

DISPLAY
PRODUCTS

1-1 Color video monitors

13" PVM-1390 (NTSC)

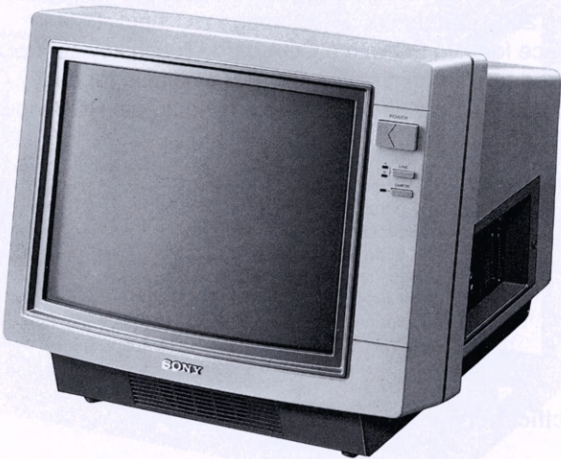
Color video monitor

- A high resolution of 450TV lines (video), 2000 characters (RGB)
- Y/C input
- D-sub 25-pin connector for Analog/Digital RGB input
- Built-in speaker for sound monitoring

Specifications

Video signals:	EIA 525 lines, 60 fields
Color system:	NTSC
Picture tube:	Trinitron 36.8cm (14-inch), visible picture size 33.7cm (13-inch) measured diagonally, 90° deflection
Horizontal resolution:	450TV lines at center
Audio power output:	0.5W with built-in speaker
Power requirements:	AC 120V, 50/60Hz
Power consumption:	85W max.
Dimensions:	385(W) × 342(H) × 434(D)mm (15 ¹ / ₄ × 13 ¹ / ₂ × 17 ¹ / ₈ inches)
Weight:	Approx. 13kg (28 lb 9 oz)
VIDEO	
LINE A	Loop-through BNC Composite: 1.0Vp-p, sync negative, 75Ω and high impedance switchable
LINE B	8-pin VTR*: Composite: 1.0Vp-p, sync negative, 75Ω Mini DIN 4-pin Y/C (S VIDEO)*: Y (Luminance signal): 1.0Vp-p, sync negative, 75Ω C (Chrominance signal): 0.286Vp-p, 75Ω
AUDIO	
LINE A	Loop-through Phono -5dBu, high impedance
LINE B	8-pin VTR: -5dBu, high impedance Phono
CMPTN IN	Y/C (S-VIDEO)*: -5dBs, high impedance 25-pin C For computer with analog or digital RGB

*VTR or S-VIDEO can be selected via the selection switch.



1-1 Color video monitors

13" PVM-1380 (NTSC)

Color video monitor

- Black face Trinitron 36.8cm (14-inch), visible picture size
- 33.7cm (13-inch) measured diagonally
- Dual inputs

Optional accessory: TV tuner unit TU-1040
Monitor connecting cable VMC cable
(8-pin (male)/8-pin (male))

Specifications

Video signals: EIA 525 lines, 60 fields
Color system: NTSC
Picture tube: Trinitron 36.8cm (14-inch), visible picture size
33.7cm (13-inch) measured diagonally,
90° deflection
Horizontal resolution: 250TV lines at center
Audio power output: 1.0W with built-in speaker
Power requirements: AC 120V, 50/60Hz
Power consumption: 86W
Dimensions: 366.8(W) × 356.5(H) × 408.5(D)mm
(14 1/2 × 14 1/8 × 16 1/8 inches)
Weight: 11.5kg (25 lb 6 oz)

VIDEO	
LINE A	Loop-through BNC Composite: 1.0Vp-p, sync negative, 75Ω and high impedance switchable
LINE B	Loop-through BNC Composite: 1.0Vp-p, sync negative, 75Ω and high impedance switchable 8-pin VTR: Composite: 1.0Vp-p, sync negative, 75Ω
AUDIO	
LINE A	Loop-through Phono -5dBu, high impedance
LINE B	Loop-through Phono -5dBu, high impedance 8-pin VTR: -5dBu, high impedance



DISPLAY
PRODUCTS

1-1 Color video monitors

20" GVM-2020 (NTSC)

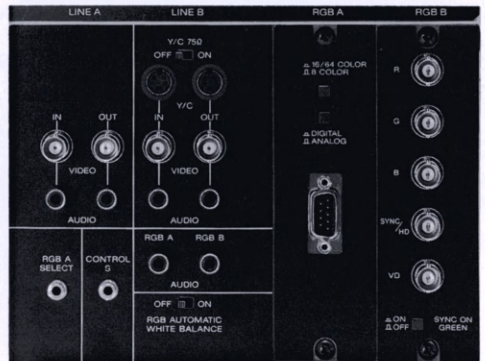
Color monitor for a variety of sources

•Multiple input facility with audio •Multiscan capability; horizontal 15kHz to 36kHz, vertical 50Hz to 100Hz •A high resolution of 560TV lines/720 × 480 pixels •Beam current feedback circuit for stable color reproduction •Can be used with IBM PC with CGA/EGA card, IBM PS/2 and Apple Macintosh II color mode •8/16/64 color and monochrome display capability •Horizontal shift and Horizontal/Vertical size controls in RGB mode •Optional analog RGB input board IFG-50 available •Optional wired remote control unit RM-787

Optional accessories: Wired remote control unit RM-787
Analog RGB interface board IFG-50

Specifications

Video signals:	EIA 525 lines, 60 fields
Color system:	NTSC
Picture tube:	54.5cm (21-inch), Trinitron tube, visible picture size 50.6cm (20-inch) measured diagonally, 100° deflection
Horizontal resolution:	560TV lines (Video inputs) 720 × 480 pixels (RGB inputs)
Scanning frequency:	Horizontal: 15 to 36kHz Vertical: 50 to 100Hz
Audio power output:	Monaural, 2.0W with built-in speaker, 8Ω (nominal)
Power requirements:	AC 120V, 50/60Hz
Power consumption:	180W
Dimensions:	510(W) × 475(H) × 510(D)mm (20 1/8 × 18 3/4 × 20 1/8 inches)
Weight:	Approx. 30.0kg (66 lb 2 oz)
VIDEO	
LINE A	Loop-through BNC Composite 1.0Vp-p, sync negative, Automatic 75Ω termination*2
LINE B	
Y/C*1:	Loop-through Mini DIN 4-pin Y (Luminance signal): 1.0Vp-p, sync negative, 75Ω switchable C (Chrominance signal): NTSC; 0.286Vp-p, 75Ω, switchable
Video*1:	Loop-through BNC Composite 1.0Vp-p, sync negative, Automatic 75Ω termination*2
RGB	
RGB A	9-pin D Analog RGB: 0.7Vp-p, 75Ω Digital RGB: TTL, positive Sync: Composite sync; 1.0Vp-p, negative, 75Ω H/V separate sync; TTL, negative/positive
RGB B	BNC RGB: 0.7Vp-p, 75Ω Sync: Composite sync; 1.0Vp-p, negative, 75Ω H/V separate sync; TTL, negative/positive Sync on Green: 0.3Vp-p, negative, 75Ω
AUDIO	
LINE A	Loop-through Phono -5dBu, high impedance
LINE B	Loop-through Phono -5dBu, high impedance
RGB A	Phono -5dBu, high impedance
RGB B	Phono -5dBu, high impedance



*1 The Y/C input has priority over the composite input.

*2 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

1-1 Color video monitors

13" GVM-1311Q (NTSC/PAL/SECAM/NTSC4.43)

- Multiple input facility with audio
- Multiscan capability; horizontal 15kHz to 36kHz, vertical 50Hz to 100Hz
- A high resolution of 600TV lines/1024 × 768 pixels
- Can be used with IBM PC with CGA/EGA card, IBM PS/2, and Apple Macintosh II color mode
- 8/16/64 - color and monochrome display capability
- VGA autosize function in RGB A mode
- Horizontal and vertical size/shift controls in RGB mode
- Optional analog RGB interface board IFG-50 available
- Sub picture control for RGB mode
- Built-in speaker and earphone jack for audio monitoring
- Minimizes VLF/ELF magnetic interference

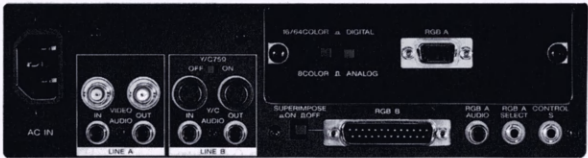
Optional accessories: Wired remote control unit RM-787
Analog RGB interface board IFG-50
Tilt swivel stand SU-552

Specifications

Video signals:	EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (Switching of EIA to CCIR or vice versa is automatically done)
Color system:	NTSC/PAL/SECAM/NTSC4.43*1 (automatically selected)
Picture tube:	36.8cm (14-inch), Super Fine Pitch Trinitron CRT, visible picture size 33.7cm (13-inch) measured diagonally, AG pitch 0.25mm
Horizontal resolution:	600TV lines (Video inputs) 1024 × 768 pixels (RGB inputs)
Scanning frequency:	Horizontal: 15 to 36kHz Vertical: 50 to 100Hz
Audio power output:	Monaural, 0.5W, 8Ω (nominal)
Power requirements:	AC 120V, 50/60Hz
Power consumption:	95W
Dimensions:	379(W) × 365(H) × 411(D)mm (15 × 14 ³ / ₈ × 16 ¹ / ₄ inches)
Weight:	Approx. 17kg (37 lb 8 oz)
VIDEO	
LINE A	Loop-through BNC Composite 1.0Vp-p, sync negative, Automatic 75Ω termination*2
LINE B	
Y/C:	Loop-through Mini DIN 4-pin Y (Luminance signal): 1.0Vp-p, sync negative, 75Ω switchable C (Chrominance signal): NTSC: 0.286Vp-p, 75Ω switchable PAL: 0.3Vp-p, 75Ω switchable
RGB	
RGB A	9-pin D Analog RGB: 0.7Vp-p, 75Ω Digital RGB: TTL level Sync: Analog level: 1.0Vp-p, negative, 75Ω TTL level; negative/positive Sync on Green: 0.3Vp-p, negative, 75Ω
RGB B	25-pin D Analog RGB: 0.7Vp-p, positive, 75Ω Digital RGB: TTL level, positive Sync: Analog level: 1.0Vp-p, negative, 75Ω TTL level: negative/positive Sync on Green: 0.3Vp-p, negative, 75Ω
AUDIO	
LINE A	Loop-through Phono -5dBu, high impedance
LINE B	Loop-through Phono -5dBu, high impedance
RGB A	Phono -5dBu, high impedance
RGB B	Phono -5dBu, impedance more than 47kΩ



Tilt swivel stand is optional



DISPLAY
PRODUCTS

*1 The NTSC4.43 system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.
*2 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

1-1 Color video monitors

13" GVM-1316TSQ (NTSC/PAL/SECAM/NTSC^{4.43})

- Employs Surface Acoustic Wave touch screen system for high transparency and reliability
- Two-piece construction
- Multiscan capability; horizontal 15kHz to 36kHz, vertical 50Hz to 100Hz
- A high resolution of 1024 × 768 pixels (RGB)/600TV lines (composite video)
- Can be used with IBM PC with CGA/EGA card, IBM PS/2, and Apple Macintosh II color mode
- VGA autosize function in RGB A mode
- Horizontal and vertical size/shift controls in RGB mode
- Optional analog RGB interface board IFG-50 available
- 8/16/64-colour and monochrome display capability
- Sub picture control for RGB mode
- Built-in speaker and earphone jack for audio monitoring
- Minimizes VLF/ELF magnetic interferences

Supplied accessories: Softwares for touch screen;
Users' disk 3.5-inch (1 piece), 5-inch (1 piece)
Programmers' disk 3.5-inch (1 piece),
5-inch (1 piece)

Optional accessories: Wired remote control unit RM-787
Analog RGB interface board IFG-50
Tilt swivel stand SU-552
DOS/Window mouse driver kit TSS-100
Macintosh mouse driver kit TSS-200

Specifications

Video signals:	EIA 525 lines, 60 fields/CCIR 625 lines, 50 fields (Switching of EIA to CCIR or vice versa is automatically done)
Colour system:	NTSC/PAL/SECAM/NTSC ^{4.43} *1 (automatically selected)
Picture tube:	36.8cm (14-inch), Super Fine Pitch Trinitron CRT, visible picture size 33.7cm (13-inch) measured diagonally, AG pitch 0.25mm
Horizontal resolution:	600TV lines (Video inputs) 1024 × 768 pixels (RGB inputs)
Scanning frequency:	Horizontal: 15 to 36kHz Vertical: 50 to 100Hz
Audio power output:	Monaural, 0.5W, 8Ω (nominal)
Power requirements:	AC 120V, 50/60Hz
Power consumption:	103W
Dimensions:	379(W) × 365(H) × 421(D)mm (15 × 14 ³ / ₈ × 16 ⁵ / ₈ inches)
Weight:	Approx. 18.5kg (40 lb 13 oz)
VIDEO	
LINE A	Loop-through BNC Composite 1.0Vp-p, sync negative, Automatic 75Ω termination*2
LINE B	
Y/C:	Loop-through Mini DIN 4-pin Y (Luminance signal): 1.0Vp-p, sync negative, 75Ω switchable C (Chrominance signal): NTSC: 0.286Vp-p, 75Ω switchable PAL: 0.3Vp-p, 75Ω switchable
RGB	
RGB A	9-pin D Analog RGB: 0.7Vp-p, 75Ω Digital RGB: TTL level Sync: Analog level: 1.0Vp-p, negative, 75Ω TTL level: negative/positive Sync on Green: 0.3Vp-p, negative, 75Ω
RGB B	25-pin D Analog RGB: 0.7Vp-p, positive, 75Ω Digital RGB: TTL level, positive Sync: Analog level: 1.0Vp-p, negative, 75Ω TTL level: negative/positive Sync on Green: 0.3Vp-p, negative, 75Ω



Tilt swivel stand is optional



AUDIO	
LINE A	Loop-through Phono -5dBu, high impedance
LINE B	Loop-through Phono -5dBu, high impedance
RGB A	Phono -5dBu, high impedance
RGB B	Phono -5dBu, impedance more than 47kΩ
Touch screen	
External computer Interface:	RS232C port, D-sub 25-pin (female) Baud rate: 9600 bps Communication Protocol: Binary
Material:	Glass (non-glare), 3.2mm thick

*1 The NTSC^{4.43} system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.

*2 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

1-1 Color video monitors

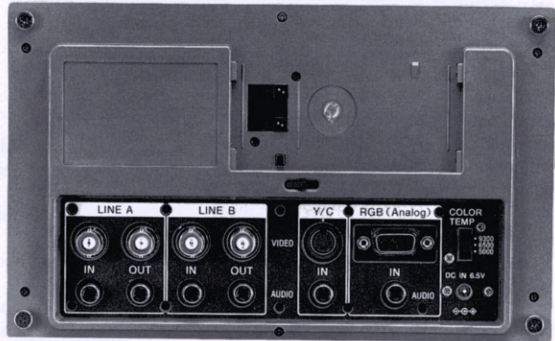
6" FDL-X600 (NTSC/PAL)

- 5.9-inch (visible size) Liquid Crystal Display (LCD) •Thin Film Transistor Active Matrix LCD panel with 194,040 pixel
 - Accepts both NTSC and PAL* signals •Switchable to B/W mode •Color temperature selectable; 5000K/6500K/9300K
 - Multiple input facilities •Built-in monaural speaker
- *PAL signal is line skip

- Supplied accessories: Detachable hood
Carrying belt
Cleaning cloth
- Optional accessories: Car battery adaptor DCP-77, DC-S10
Rechargeable battery pack NP-55H/66H/77H/77HD
Battery case EBP-77

Specifications

General	
Video signals:	EIA 525 lines/60 fields, CCIR 625 lines/50 fields
Color system:	NTSC/PAL (automatically selected)
LCD panel:	TN (Twisted nematic) full color with anti-reflection glass panel TFT (Thin Film Transistor) Active Matrix LCD panel with 194,040 pixels, Normally white, Non-interlace, Visible picture size 14.9cm (5.9-inch) measured diagonally
Horizontal resolution:	330TV lines (NTSC composite video) 300TV lines (PAL composite video) 294 dots (RGB)
Audio power output:	Monaural, 0.3W
Power requirements:	DC 6 to 9V
Power consumption:	Approx. 12W
Dimensions:	216(W) × 132(H) × 85(D)mm (8 ⁵ / ₈ × 5 ¹ / ₄ × 3 ³ / ₈ inches) (Including projecting parts and controls) Approx. 1.3kg (2 lb 14 oz)
Weight:	
Video	
Line A:	Loop-through BNC 1.0Vp-p, sync negative, Automatic 75Ω termination*
Line B:	Loop-through BNC 1.0Vp-p, sync negative, Automatic 75Ω termination*
Y/C:	Mini DIN 4-pin Y(luminance): 1.0Vp-p, sync negative, 75Ω C(chrominance): 0.286Vp-p, (NTSC) 75Ω 0.3Vp-p, (PAL) 75Ω
RGB:	D-sub 9-pin 0.7Vp-p, positive, 75Ω Sync: 1.0Vp-p, negative, 75Ω Sync on Green: 1.0Vp-p, sync negative 75Ω
Audio	
Line A:	Loop-through phono -5dBu, more than 47kΩ
Line B:	Loop-through phono -5dBu, more than 47kΩ
Y/C:	Phono -5dBu, more than 47kΩ
RGB:	Phono -5dBu, more than 47kΩ



DISPLAY
PRODUCTS

*75Ω termination is automatically set to OFF when connection is made to the OUT connector.

1-2 Monochrome video monitors

13" PVM-136

•EIA or CCIR automatic selection •Aspect ratio is switchable from 4:3 to 16:9 •A high resolution of 1000TV lines at center
•Incorporates a CRT with D65 •H/V delay, underscan capability •Equipped with a notch filter •Built-in speaker for audio monitoring •Accepts external sync •Rack mountable with the optional mounting bracket MB-502B and slide rail kit SLR-103 •Tally input

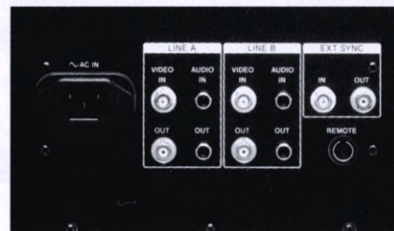
Supplied accessories: AC power cord
AC plug holders
Number plate (1 set)
Remote connector 8-pin
Operation manual

Optional accessories: Rack mounting bracket MB-502B
Slide rail kit SLR-103

Specifications

General

Video signals: EIA 525 lines/60 fields, CCIR 625 lines/50 fields (Automatic selection)
Picture tube: 34cm (14-inch), 32.1cm (13-inch) visible picture measured diagonally, 90° deflection
Horizontal resolution: 1000TV lines at center
Audio power output: Monaural, 0.5W
Power requirements: AC 100 to 240V*, 50/60Hz
Power consumption: 30W
Dimensions: 346(W) × 340(H) × 330(D)mm (13⁵/₈ × 13¹/₂ × 13 inches)
Weight: 11kg (24 lb 4 oz)



Video

Line A: Loop-through BNC, 1Vp-p, sync negative, Automatic 75Ω termination*2
Line B: Loop-through BNC, 1Vp-p, sync negative, Automatic 75Ω termination*2
External sync input: Loop-through BNC, 1 to 4Vp-p, negative, Automatic 75Ω termination*2

Audio

Line A: Loop-through Phono, -5dBu, high impedance
Line B: Loop-through Phono, -5dBu, high impedance

*1 UL approved for 120V operation only.

*2 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

13" PVM-135

•EIA or CCIR automatic selection •A high resolution of 1000TV lines at center •Built-in speaker for audio monitoring
•Accepts external sync •Rack mountable with the optional mounting bracket MB-502B and slide rail kit SLR-103

Supplied accessories: AC power cord
AC plug holders
Operation manual
Optional accessories: Rack mounting bracket MB-502B
Slide rail kit SLR-103

Specifications

General

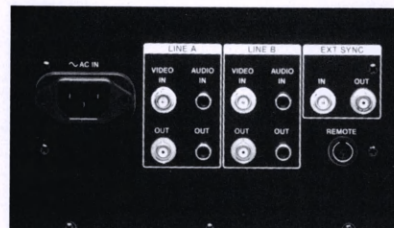
Video signals: EIA 525 lines/60 fields, CCIR 625 lines/50 fields (Automatic selection)
Picture tube: 34cm (14-inch), 32.1cm (13-inch) visible picture measured diagonally, 90° deflection
Horizontal resolution: 1000TV lines at center
Audio power output: Monaural, 0.5W
Power requirements: AC 100 to 240V*, 50/60Hz
Power consumption: 30W
Dimensions: 346(W) × 340(H) × 330(D)mm (13⁵/₈ × 13¹/₂ × 13 inches)
Weight: 11kg (24 lb 4 oz)

Video

Line A: Loop-through BNC, 1Vp-p, sync negative, Automatic 75Ω termination*2
Line B: Loop-through BNC, 1Vp-p, sync negative, Automatic 75Ω termination*2
External sync input: Loop-through BNC, 1 to 4Vp-p, negative, Automatic 75Ω termination*2

Audio

Line A: Loop-through Phono, -5dBu, high impedance
Line B: Loop-through Phono, -5dBu, high impedance



*1 UL approved for 120V operation only.

*2 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

1-2 Monochrome video monitors

9" PVM-96

- EIA/CCIR automatic selection •Aspect ratio is switchable from 4:3 to 16:9 •A high resolution of 900TV lines at center
- Incorporates a CRT with D65 •H/V delay, underscan capability •Equipped with a notch filter •Built-in speaker for audio monitoring •Accepts external sync •Rack mountable with a second PVM-96 or an optional blank panel MB-509 by using the optional MB-507 rack mounting bracket •Tally input

Supplied accessories: AC power cord
AC plug holders
Remote connector 8-pin
Operation manual

Optional accessories: Rack mounting bracket MB-507
Blank panel MB-509

Specifications

General

Video signals: EIA 525 lines/60 fields, CCIR 625 lines/50 fields (Automatic selection)

Picture tube: 23.0cm (9-inch), 21.7cm (9-inch) visible picture measured diagonally, 90° deflection

Horizontal resolution: 900TV lines at center

Audio power output: Monaural, 0.5W

Power requirements: AC 100 to 240V*1, 50/60Hz

Power consumption: 28W

Dimensions: 217(W) × 218(H) × 250(D)mm (8⁵/₈ × 8⁵/₈ × 9⁷/₈ inches)

Weight: 5.5kg (12 lb 2 oz)



Video

Line A: Loop-through BNC, 1Vp-p, sync negative, Automatic 75Ω termination*2

Line B: Loop-through BNC, 1Vp-p, sync negative, Automatic 75Ω termination*2

External sync input: Loop-through BNC, 1 to 4Vp-p, negative, Automatic 75Ω termination*2

Audio

Line A: Loop-through Phono, -5dBu, high impedance

Line B: Loop-through Phono, -5dBu, high impedance

*1 UL approved for 120V only.

*2 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

9" PVM-95

- EIA/CCIR automatic selection •A high resolution of 900TV lines at center •Built-in speaker for audio monitoring
- Accepts external sync •Rack mountable with a second PVM-95E or an optional blank panel MB-509 by using the optional MB-507 rack mounting bracket

Supplied accessories: AC power cord
AC plug holders
Operation manual

Optional accessories: Rack mounting bracket MB-507
Blank panel MB-509

Specifications

General

Video signals: EIA 525 lines/60 fields, CCIR 625 lines/50 fields (Automatic selection)

Picture tube: 23.0cm (9-inch), 21.7cm (9-inch) visible picture measured diagonally, 90° deflection

Horizontal resolution: 900TV lines at center

Audio power output: Monaural, 0.5W

Power requirements: AC 100 to 240V*1, 50/60Hz

Power consumption: 28W

Dimensions: 217(W) × 218(H) × 250(D)mm (8⁵/₈ × 8⁵/₈ × 9⁷/₈ inches)

Weight: 5.5kg (12 lb 2 oz)

Video

Line A: Loop-through BNC, 1Vp-p, sync negative, Automatic 75Ω termination*2

Line B: Loop-through BNC, 1Vp-p, sync negative, Automatic 75Ω termination*2

External sync input: Loop-through BNC, 1 to 4Vp-p, negative, Automatic 75Ω termination*2

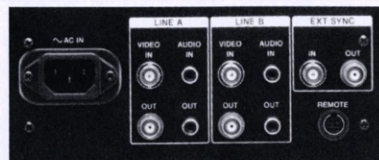
Audio

Line A: Loop-through Phono, -5dBu, high impedance

Line B: Loop-through Phono, -5dBu, high impedance

*1 UL approved for 120V operation only.

*2 75Ω termination is automatically set to OFF when connection is made to the OUT connector.



1-2 Monochrome video monitors

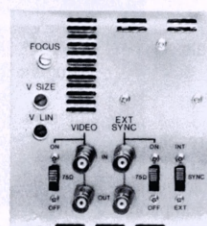
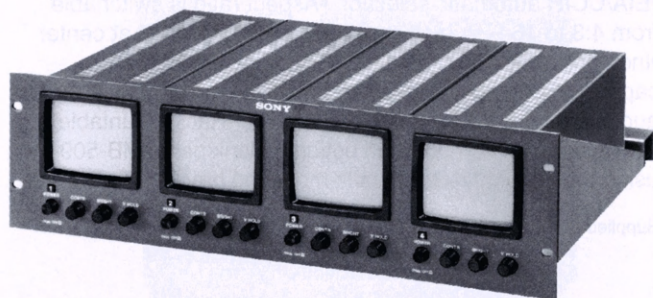
4" × 4 PVM-411

Rack mount type

- Specially designed as a camera monitor for a surveillance system or a video studio with multiple camera installation
- Accepts external sync •Equipped with BNC connectors

Specifications

Video signals:	EIA 525 lines, 60 fields
Picture tube:	10.3cm (4-inch), visible picture size 9.4cm (3.7-inch) measured diagonally, 50° deflection
Horizontal resolution:	500TV lines at center
Power requirements:	AC 120V, 50/60Hz
Power consumption:	56W
Dimensions:	483(W) × 133(H) × 410(D)mm (19 ¹ / ₈ × 5 ¹ / ₄ × 16 ¹ / ₄ inches)
Weight:	14.2kg (30 lb 14 oz)
Video	Loop-through BNC
	Composite: 1.0Vp-p, sync negative, 75Ω switchable
Sync	Loop-through BNC
	4.0Vp-p, negative, 75Ω switchable



1-3 Monitor accessories

DMIF-1000/2000

Digital monitor interface for PVM series

- An active buffered output which allows the signal to be fed to other equipment up to 200m away
- Built-in automatic cable equalization for up to 200m of connecting cable*
- 8-bit data path
- 19-inch EIA standard rack mountable with a second DMIF-1000/2000 by using the optional mounting bracket MB-510

*Signal transmission at the maximum distance of 200m is only guaranteed when a suitable cable is used. This cable should be a 75Ω coaxial cable (5C-2V) which has an attenuation at 10MHz of not more than 25dB over 1km.

Optional accessory: Rack mount kit MB-510

DMIF-1000

- Accepts a 4:2:2 Component Serial Digital video signal input
- Outputs analog component (Y/R-Y/B-Y) signals
- Operates on either 525/60 or 625/50 standard (automatic selection)

DMIF-2000

- Accepts a Composite Serial Digital video signal input
- Outputs analog composite signals
- Operates on both NTSC or PAL systems (front panel switch)

Power requirements:
AC 100 to 240V, 50/60Hz
automatic selection

Power consumption:

DMIF-1000: 15W

DMIF-2000: 10W

Dimensions: 212(W) × 44(H) × 280(D)mm
(8³/₈ × 1³/₄ × 11¹/₈ inches)

Weight: 2kg (4 lb 6 oz)

Input

Serial component:

DMIF-1000: BNC, 75Ω

Serial composite:

DMIF-2000: BNC, 75Ω

Output

Analog component (DMIF-1000):

Y: BNC, 75Ω

R-Y/B-Y: BNC, 75Ω

Analog composite (DMIF-2000):

BNC, 75Ω

Active output:

BNC, 75Ω

Signal system:

DMIF-1000: 525/60 or 625/50 automatic selection

DMIF-2000: NTSC or PAL manual selection

Sampling frequency:

DMIF-1000:

Y: 13.5MHz

R-Y/B-Y: 6.75MHz

DMIF-2000:

NTSC: 14.3MHz

PAL: 17.7MHz

Bit rate:

DMIF-1000: 270 Mb/s

DMIF-2000: NTSC: 143Mb/s

PAL: 177Mb/s

Quantization: 8 bit/sample

Video bandwidth:

DMIF-1000: Y: 100Hz to

5.75MHz±1dB

R-Y/B-Y: 100Hz to

2.75MHz±1dB

DMIF-2000: 100Hz to 6MHz±1dB

K factor:

Less than 1% (2T pulse)

DMIF-1000



DMIF-2000



DISPLAY
PRODUCTS

MB-502A

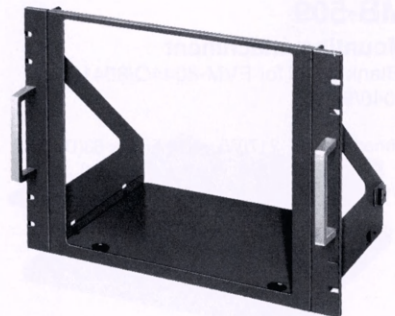
Mounting bracket

- Bracket for PVM-1344Q/1341/1340 (used with SLR-102)

Dimensions: 483(W) × 355(H) × 329(D)mm
(19¹/₈ × 14 × 13 inches)

Weight: 4kg (8 lb 13 oz)

Supplied accessories: Screws



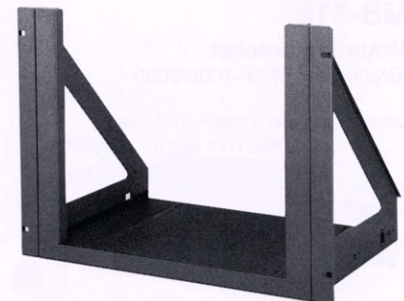
MB-502B

Mounting bracket

- Bracket for PVM-1354Q/1344Q/1351Q/1341/1350/1340/136/135 (used with SLR-102)

Dimensions: 483(W) × 355(H) × 302(D)mm
(19¹/₈ × 14 × 12 inches)

Weight: 3.8kg (8 lb 6 oz)



1-3 Monitor accessories

MB-507

Mounting bracket

- Bracket for PVM-8044Q/8041Q/8040/5041Q/96/95

Dimensions: 482(W) × 221(H) × 395(D)mm
(19 × 8³/₄ × 15⁵/₈ inches)
Weight: 2.6kg (5 lb 11 oz)

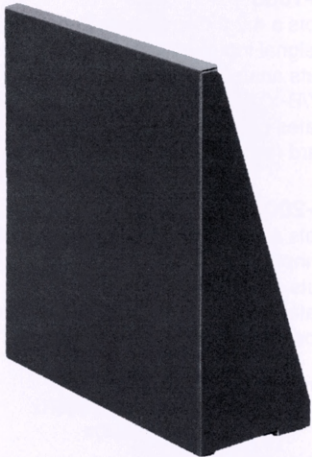


MB-508

Mounting attachment

- Blank panel for PVM-5041Q

Dimensions: 146(W) × 168.5(H) × 63(D)mm
(5³/₄ × 6³/₄ × 2¹/₂ inches)
Weight: 0.2kg (7 oz)

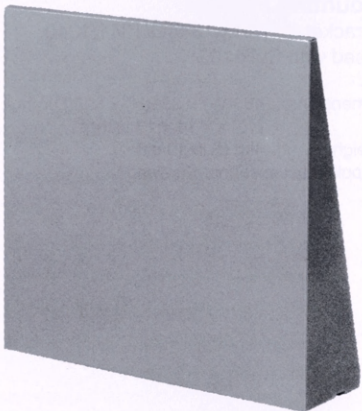


MB-509

Mounting attachment

- Blank panel for PVM-8044Q/8041Q/8040/96/95

Dimensions: 217(W) × 212.5(H) × 63(D)mm
(8⁵/₈ × 8³/₈ × 2¹/₂ inches)
Weight: 0.4 kg (14 oz)

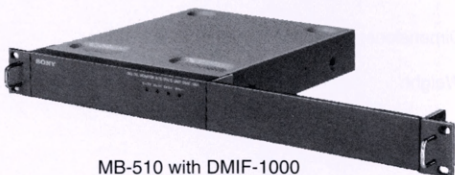


MB-510

Mounting bracket

- Bracket for DMIF-1000/2000

Dimensions (with 2 DMIF-1000/2000):
482(W) × 44(H) × 280(D)mm
(19 × 1³/₄ × 11¹/₈ inches)
Weight: 0.3kg (10 oz)



MB-510 with DMIF-1000

1-3 Monitor accessories

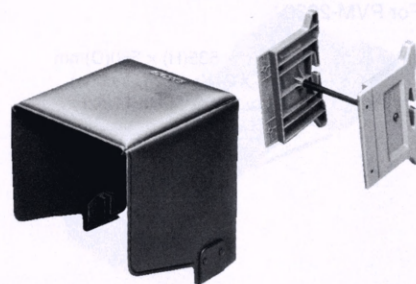
VF-504

Monitor ENG kit

- Monitor hood and cord reel for PVM-5041Q

Dimensions: Hood:
159(W) × 172(H) × 160(D)mm
(6³/₈ × 6⁷/₈ × 6³/₈ inches)
(with PVM-5041Q):
159(W) × 178(H) × 567.5(D)mm
(6³/₈ × 7¹/₈ × 22³/₈ inches)

Weight: 0.4 kg (14 oz)



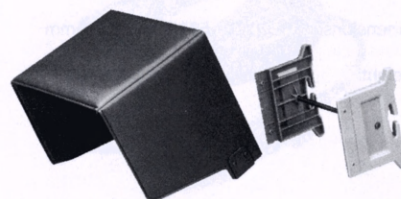
VF-505

Monitor ENG kit

- Monitor hood and cord reel for PVM-8044Q/8041Q

Dimensions: Hood:
230(W) × 215(H) × 200(D)mm
(9¹/₈ × 8¹/₂ × 7⁷/₈ inches)
(with PVM-9044QM/9041QM):
230(W) × 222(H) × 607.5(D)mm
(9¹/₈ × 8³/₄ × 24 inches)

Weight: 0.5kg (17 oz)



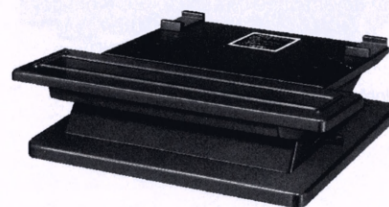
SU-538

Tilt swivel stand

- For PVM-2030

Dimensions: 492(W) × 121(H) × 459(D)mm
(19³/₈ × 4⁷/₈ × 18¹/₈ inches)

Weight: Approx. 8.5kg (18 lb 12 oz)



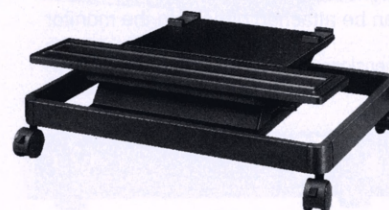
SU-539

Tilt swivel stand

- For PVM-2530

Dimensions: 656(W) × 203(H) × 494(D)mm
(25⁷/₈ × 8 × 19¹/₂ inches)

Weight: Approx. 13.5kg (29 lb 12 oz)



1-3 Monitor accessories

SU-540

Monitor stand

- For PVM-2030

Dimensions: 512(W) × 535(H) × 560(D)mm
(20¹/₄ × 21¹/₈ × 22¹/₈ inches)
Weight: Approx. 18kg (39 lb 11 oz)



SU-541

Monitor stand

- For PVM-2530

Dimensions: 629(W) × 535(H) × 560(D)mm
(24⁷/₈ × 21¹/₈ × 22¹/₈ inches)
Weight: Approx. 22kg (48 lb 8 oz)



SS-X6A

Speaker system (one pair)

- For PVM-2030/2530/3230
- Magnetically shielded
- Can be attached directly to the monitor

Dimensions: 201(W) × 113(H) × 83(D)mm
(8 × 4¹/₂ × 3³/₈ inches)
Weight: 1.2kg (2 lb 10 oz)

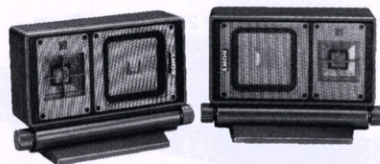


APM-X5A

Speaker system (one pair)

- For PVM-2030/2530/3230
- Provides a high quality Hi-fi sound
- Magnetically shielded
- Can be attached directly to the monitor

Dimensions: 183(W) × 280(H) × 90(D)mm
(7¹/₄ × 11¹/₈ × 3⁵/₈ inches)
Weight: 2.5kg (5 lb 8 oz)



1-3 Monitor accessories

DSG-10

Display signal generator

- Signal generator for any monitor with a demodulation axis of 90 degrees and a BNC composite video input

Dimensions: 104 (W) × 48 (H) × 268 (D)mm
(4¹/₈ × 11⁵/₁₆ × 10⁵/₈ inches)
Weight: Approx. 420g (15 oz)



DCC-XLR4

Car battery cord

- For PVM-8044Q/8041Q/5041Q and TU-1040

Power requirements:
12V/24V DC
Output voltage: 12V: 5A
Cord length: Approx. 3m (9ft 9 inches)
Weight: Approx. 175g (6 oz)



DISPLAY
PRODUCTS

ST-92TV

TV stereo tuner unit

- For PVM-2030/2530/3230
- Multi-band American TV standards VHF/UHF and Cable TV channels (1 to 125)
- Supplied remote control unit RM-U72 can control full functions of the monitor.

Power requirements: AC 120V, 60Hz
Power consumption: 27W
Channel coverage:

VHF channels 2 to 13
UHF channels 14 to 69
Cable TV channels 1 to 125

Dimensions: 430(W) × 55(H) × 280(D)mm
(17 × 2¹/₈ × 11¹/₈ inches)

Weight: Approx. 3.1 kg (6 lb 13 oz)

Supplied accessories:

- Remote control unit:
RM-U72 remote control cable
- Connecting cord: RK 74A
(2 phono plugs to 2 phono plugs)
- Video cable: VMC-1S
(phono plug to phono plug)
- Control cable
(mini plug to mini plug)
- Sony SUM-3 (NS) batteries × 2
- Antenna connector



TU-1040

TV tuner unit

- Receives Multi-band American TV standards VHF/UHF and Cable TV channels
- DC operation capability
- Mountable with 5/8-inch monitors with the optional mounting bracket MB-512

Power requirements:
AC 100 to 240V, 50/60Hz*
*UL approved for 120V AC operation only

Power consumption:
AC 12W max.
DC 10W

Channel coverage:

VHF channels 2 to 13
UHF channels 14 to 69
Cable TV channels 1 to 125

Dimensions: 212(W) × 49.3(H) × 361(D)mm
(8³/₈ × 2 × 14¹/₄ inches)

Weight: 2.05kg (4 lb 8 oz)

Supplied accessories:

- AC power cord
- AC plug holder

Optional accessories:

- Rechargeable battery pack NP-1B
- Battery charger for four NP-1B, BC-1WD/410
- AC adaptor AC-550
- Rod antenna AN-1040
- Monitor mounting bracket MB-512
- EIA rack mount kit MB-510

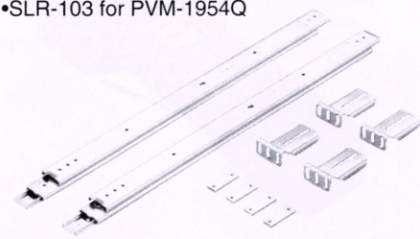


1-3 Monitor accessories

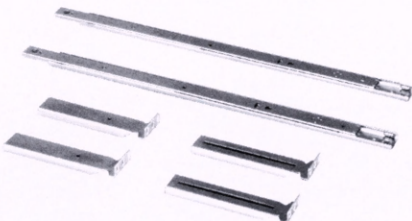
SLR-101/102/103

Slide rail kit

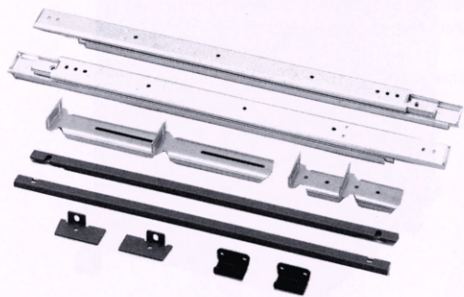
- SLR-101 for PVM-1944Q
- SLR-102 for PVM-1344Q/1341/1340
- SLR-103 for PVM-1954Q



SLR-101



SLR-102



SLR-103

IFG-50

Analog RGB interface

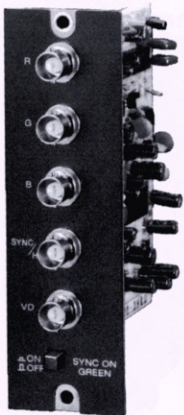
- For GVM-2020/1311Q/1316TSQ
- 5 BNC

Power requirements:
DC12V (Supplied from the monitor)

Power consumption:
2.3W

Dimensions:
40(W) × 130.5(H) × 138(D)mm
(1⁵/₈ × 5¹/₄ × 5¹/₂ inches)

Weight:
Approx. 0.15kg (5.3 oz)



RM-787

- Wired (10m) remote control unit for GVM-2020/1311Q/1316TSQ

Remote control system:
Infrared control

Power requirements:
DC 3V, two size AA (R6) batteries

Dimensions:
40(W) × 177(H) × 20(D)mm
(1³/₄ × 7 × ³/₄ inches)

Weight:
0.11kg (4 oz) (with batteries)



TSS-100

DOS/Windows mouse driver kit for GVM-1316TSQ

- Converts mouse-driven control application to a touch on screen format
- No software modification necessary
- Suitable for all GVM touch screen models

3.5-inch disk (1)
5-inch disk (1)
User's guide (1)

TSS-200

Macintosh mouse driver kit for GVM-1316TSQ

- Converts mouse-driven control application to a touch on screen format
- No software modification necessary
- Suitable for all GVM touch screen models

3.5-inch disk (1)
User's disk (1)

2-1 Color video projection systems

VPH-1272Q (NTSC/PAL/SECAM/NTSC4.43)

•Multiscan capability: horizontal 15 to 93kHz, vertical 38 to 150Hz •New CRT assures high resolution of 1500 × 1200 pixels (RGB IN, at fH:74kHz, fV:60Hz) •Remarkable light output of 700 lm (peak white), 200 lm (all white) •Wide RGB bandwidth of 70MHz •Registration adjustment at 21 points on the screen for accurate registration •Double scan capability (when used with PC-1271 with IFB-3000 installed) •Responds to both Analog/Digital RGB signals •Color temperature selection: 9300K/6500K/3200K/User Preset (factory preset; 6500K) •Supplied wired/wireless remote control unit RM-1271 controls all the projector functions such as set up adjustments and operational functions •Various optional IFB series interface boards, IFU interface unit, SIC series signal interface cables and PC-1271 signal interface switcher available for system versatility •Can be used with screens from 70-inch to 300-inch in size with simple adjustments

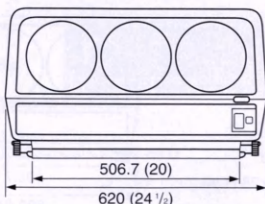
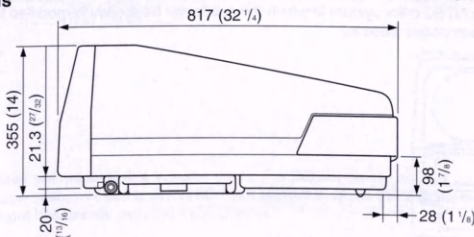
- Supplied accessories: Interface board IFB-11
Remote commander RM-1271
Remote control cable (15m)
Lens spacer (×2)
CRT spacer (×2)
Washers (12 pcs each for 4 types;
t=0.4mm/t=0.5mm/t=1.0mm/t=1.2mm)
AA size battery × 3 (for RM-1271)
AC power cord
Operation manual
- Optional accessories: Interface board: IFB-11/20/30/101/1000/1200/3000*1
Interface unit: IFU-1271
Signal interface switcher: PC-1271
Signal interface cable: SIC-10/20/21/22/30
Wireless remote control unit: RM-1270S
(Supplied with PC-1271)
Remote control receiver: RM-PJ10
Suspension support: PSS-10/1272
Flat screen: 100-inch: VPS-100FH
120-inch: VPS-120FH
Curved screen: 72-inch: VPS-72HG1
100-inch: VPS-100HG1
Rear screen: 70-inch: VPS-701R, VPS-700R2
Rear screen frame: VPF-701R
Multi cable*2: CCQ-BRS cable
(14-pin↔14-pin, 2/5/10/25/50m)
SIC-M cable
(14-pin↔14-pin, 1/5/15/25/50m)

Specification

General

- Projection picture size: 70-inch: 1422(W) × 1067(H)mm (4.7 × 3.5 ft)
72-inch: 1463(W) × 1097(H)mm (4.8 × 3.6 ft)
100-inch: 2032(W) × 1524(H)mm (6.7 × 5.0 ft)
120-inch: 2438(W) × 1828(H)mm (8.0 × 6.0 ft)
200-inch: 4064(W) × 3048(H)mm (13.5 × 10.2 ft)
250-inch: 5080(W) × 3810(H)mm (16.7 × 12.5 ft)
300-inch: 6096(W) × 4572(H)mm (20 × 15 ft)
- Projection distance: 72-inch: 2.047m (6.7 ft)
120-inch: 3.279m (10.7 ft)
200-inch: 5.334m (17.5 ft)
250-inch: 6.635m (21.7 ft)
300-inch: 7.935m (26.0 ft)
- Picture tube: New 7-inch (6.2-inch V) liquid cooled high brightness monochrome tubes with pure filter
- Projection lens: High performance HACC hybrid lenses, F 1.12/140mm, resolution 6 lp/mm
- Projection picture brightness: Light output
200 lm (all white)
700 lm (peak white)

Dimensions



unit: mm (inch)



- Video signal system: NTSC, PAL, SECAM, NTSC4.43*3 automatically selected
- Scanning frequency: Horizontal: 15 to 93kHz
Vertical: 38 to 150Hz
- Horizontal resolution: 700TV lines (VIDEO IN)
1500 × 1200 pixels
(RGB IN, measured at fH:74kHz, fV:60Hz)
- Speaker: Monaural, 3W max., 8Ω (nominal)
- Power requirements: AC 120V, 50/60Hz
- Power consumption: 560W max.
- Weight: 64kg (141 lb 1.5 oz)
- Inputs**
- Video
- Video input*4: BNC
1Vp-p, sync negative, 75Ω
- Y/C input*4: Mini DIN 4-pin
Y(luminance): 1Vp-p, sync negative, 75Ω
C(chrominance): 0.286Vp-p (NTSC), 0.3Vp-p (PAL), 75Ω
- Audio
- Phono
-5dBu, monaural, impedance more than 47kΩ
- Input A (Supplied with IFB-11 fitted)
- R/B: BNC
0.7Vp-p, positive, 75Ω
- G/Sync on G: BNC connector
0.7Vp-p, positive, 75Ω
(Non-composite)
1Vp-p, sync negative, 75Ω
(Composite)
- Sync: Composite sync: BNC
Analog level: 0.6 to 8Vp-p, high impedance, positive/negative
TTL level: Positive/negative
- HD/VD separate: Analog level: 0.6 to 0.8Vp-p high impedance, positive/negative
TTL level: Positive/negative
- Audio input
- Phono (×2)
-5dBu, impedance more than 47kΩ, stereo or monaural selectable
- Open
- Input B
- Output**
- Video: BNC
1Vp-p, sync negative, 75Ω

*1 The IFB-3000 is installed in the PC-1271.
*2 These cables are not available in some areas. For details, please consult your nearest Sony office.
*3 The NTSC4.43 system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.
*4 The Y/C IN has priority over the composite video in.

2-1 Color video projection systems

VPH-1252Q (NTSC/PAL/SECAM/NTSC_{4.43})

•Multiscan capability: horizontal 15 to 61.5kHz, vertical 38 to 150Hz •New CRT assures high resolution of 1500 × 1200 pixel (RGB IN, at fH:47kHz, fV:38Hz) •Remarkable light output of 700 lm (peak white), 200 lm (all white) •Double scan capability (when used with PC-1271 with IFB-3000 installed) •Responds to both Analog/Digital RGB signals •Color temperature selection: 9300K/6500K/3200K/User Preset (factory preset: 6500K) •Supplied wired/wireless remote control unit RM-1271 controls all the projector functions such as set-up adjustments and operational functions •Various optional IFB series interface boards, IFU-1271 interface unit, SIC series signal interface cables, and PC-1271 signal interface switcher available for system versatility •Can be used with screens from 70-inch to 300-inch in size with simple adjustments



Supplied accessories: Interface board IFB-11
Remote commander RM-1271
Remote control cable (15m)
Lens spacer (×2)
CRT spacer (×2)
Washers (12 pcs each for 4 types;
t=0.4mm/t=0.5mm/t=1.0mm/t=1.2mm)
AA size battery × 3 (for RM-1271)
AC power cord
Operation manual

Optional accessories: Interface board IFB-11/20/30/101/1000/1200/3000*1
Interface unit: IFU-1271
Signal interface switcher: PC-1271
Signal interface cable: SIC-10/20/21/22/30
Wireless remote control unit: RM-1270S
(Supplied with PC-1271)
Remote control receiver: RM-PJ10
Suspension support: PSS-10/1272
Flat screen: 100-inch: VPS-100FH
120-inch: VPS-120FH
Curved screen: 72-inch: VPS-72HG1
100-inch: VPS-100HG1
Rear screen: 70-inch: VPS-701R
VPS-700R2
Rear screen frame: VPF-701R
Multi cable*2: CCQ-BRS cable
(14-pin↔14-pin, 2/5/10/25/50m)
SIC-M cable
(14-pin↔14-pin, 1/5/15/25/50m)

Video signal system: NTSC, PAL, SECAM, NTSC_{4.43}*3 (automatically selected)
Horizontal resolution: 700TV lines (VIDEO IN)
1500 × 1200 pixels
(RGB IN, measured at fH:47kHz, fV:38Hz)
Scanning frequency: Horizontal: 15 to 61.5kHz
Vertical: 38 to 150Hz
Speaker: Monaural, 3W max., 8Ω (nominal)
Power requirements: AC 120V, 50/60Hz
Power consumption: 520W max.
Weight: 63kg (138 lb 14.2 oz)

Inputs

Video
Video input*4: BNC, 1Vp-p, sync negative, 75Ω
Y/C input*4: Mini DIN 4-pin
Y(luminance): 1Vp-p, sync negative, 75Ω
C(chrominance): 0.286Vp-p (NTSC),
0.3Vp-p (PAL), 75Ω

Audio
Phono
-5dBu, monaural, impedance more than 47kΩ

Input A (Supplied with IFB-11 fitted)
R/B: BNC, 0.7Vp-p, positive, 75Ω
G/Sync on G: BNC, 0.7Vp-p, positive, 75Ω (Non-composite)
1Vp-p, sync negative, 75Ω (Composite)
Sync: Composite sync: BNC
Analog level:
0.6 to 8Vp-p, high impedance,
positive/negative
TTL level:
Positive/negative
HD/VD separate:
Analog level:
0.6 to 0.8Vp-p high impedance,
positive/negative
TTL level:
Positive/negative

Audio input: Phono (×2)
-5dBu, impedance more than 47kΩ,
stereo or monaural selectable
Open

Input B

Output

Video
BNC
1Vp-p, sync negative, 75Ω

Specification

General

Projection picture size: 70-inch: 1422(W) × 1067(H)mm (4.7 × 3.5 ft)
72-inch: 1463(W) × 1097(H)mm (4.8 × 3.6 ft)
100-inch: 2032(W) × 1524(H)mm (6.7 × 5.0 ft)
120-inch: 2438(W) × 1828(H)mm (8.0 × 6.0 ft)
200-inch: 4064(W) × 3048(H)mm (13.5 × 10.2 ft)
250-inch: 5080(W) × 3810(H)mm (16.7 × 12.5 ft)
300-inch: 6096(W) × 4572(H)mm (20 × 15 ft)

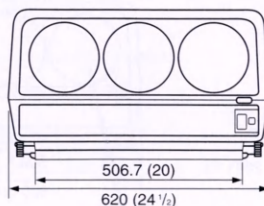
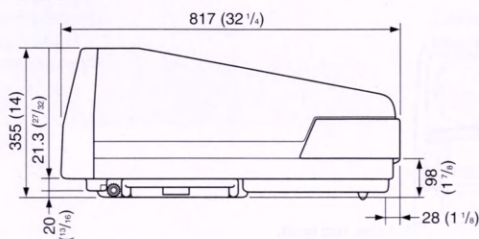
Projection distance: 72-inch: 2.047m (6.7 ft)
120-inch: 3.279m (10.7 ft)
200-inch: 5.334m (17.5 ft)
250-inch: 6.635m (21.7 ft)
300-inch: 7.935m (26.0 ft)

Picture tube: New 7-inch (6.2-inch V) liquid cooled high brightness monochrome tubes with pure filter

Projection lens: High performance HACC hybrid lenses,
F 1.12/140mm, resolution 6 lp/mm

Projection picture brightness:
Light output
200 lm (all white), 700 lm (peak white)

Dimensions



unit: mm (inch)

*1 The IFB-3000 is installed in the PC-1271.

*2 These cables are not available in some areas. For details, please consult your nearest Sony office.

*3 The NTSC_{4.43} system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.

*4 The Y/C IN has priority over the composite video in.

2-1 Color video projection systems

RVP-6000Q (NTSC/PAL/SECAM/NTSC_{4.43})

•60-inch multiscan rear projection unit •Multiscan capability: horizontal 15 to 65kHz, vertical 38 to 150Hz •High contrast images with Optical Coupling CRT •Super Fine Pitch screen with black stripes for wide vertical viewing angle •A high resolution of 1280 × 1024 pixels (RGB input)/700TV lines (video input) •Heavy duty casters with brakes for high mobility •Wired/wireless remote control RM-1271 for full adjustments and operation of the projector •Slot type RGB input modules •Optional IFB series interface boards, the SIC series signal interface boards and the PC-1271 signal interface switcher expands the system versatility

Supplied accessories: Remote commander RM-1271
Interface board IFB-11
Remote control cable for RM-1271 (10m)
Extension board
AC power cord

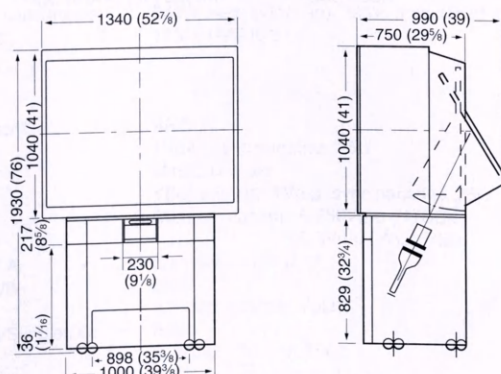
Optional accessories: Interface Board IFB-11/20/30/101/1000/1200
Signal interface switcher PC-1271
Interface Unit IFU-1271
Signal interface cables SIC-10/20/21/22/30
CCQ-BRS cables*1 (14-pin↔14-pin, 2/5/10/25/50m)
SIC-M cable*1 (14-pin↔14-pin, 1/5/15/25/50m)
Wireless remote control unit RM-1270S
(Supplied with PC-1271)
Remote control receiver RM-PJ10
AC adaptor (for RM-PJ10): AC-E60M

Specifications

General

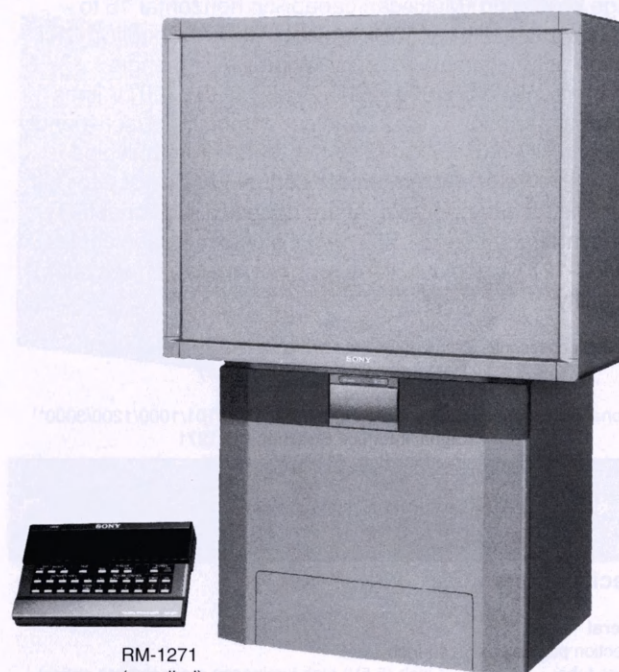
Projection picture size: 60-inch: 1219(W) × 914(H)mm (4.0 × 3.0 ft)
Picture tube: 7-inch high-luminance monochrome optical coupled, with coolant sealed
Projection lens: High performance HACC lens, F1.1/116mm
Screen: 0.6mm pitch, Black stripe two-layer (lenticular/fresnel)
Brightness: Peak white: more than 150 fL,
All white: more than 40 fL
Contrast ratio: 70:1
Viewing angle: Horizontal: ±50° (1/10 brightness)
Vertical: ±20° (1/10 brightness)
Video signal system: NTSC/PAL/SECAM/NTSC_{4.43}*2
(automatically selected)
Scanning frequency: Horizontal: 15 to 65kHz
Vertical: 38 to 150Hz
Horizontal resolution: 1280 × 1024 pixels (RGB in, measured at
fH: 40kHz, fV: 38Hz)
700TV lines (VIDEO in)
Speakers: Stereo, Max. 10W+10W, 8Ω (nominal)
Power requirements: AC 120V, 50/60Hz
Power consumption: 460W max. (Video in), 530W max. (RGB in)
Weight: 210kg (462 lb 15 oz)

Dimensions



Unit: mm (inch)

MULTISCAN



RM-1271
(supplied)

Input

Video
VIDEO*3 BNC
1.0Vp-p, sync negative, 75Ω
Y/C*3 Mini DIN 4-pin
Y (Luminance signal): 1Vp-p, sync negative, 75Ω
C (Chrominance signal): 0.286Vp-p (NTSC),
0.3Vp-p (PAL), 75Ω
Audio
Phono
-5dBu, input impedance more than 47kΩ
INPUT A
BNC:
Supplied with IFB-11 fitted.
R/B: 0.7Vp-p, Positive, 75Ω
G/sync on G: 0.7Vp-p, positive, 75Ω or 1Vp-p,
sync negative, 75Ω
Sync: Composite sync; Analog level;
0.6 to 8Vp-p, high impedance,
positive/negative
TTL level; positive/negative
HD/VD separate; Analog level;
0.6 to 8Vp-p, high impedance,
positive/negative
TTL level; positive/negative
Phono:
Audio: -5dBu, impedance more than 47kΩ
(stereo or monaural selectable)
INPUT B:
Open

Outputs

VIDEO
BNC
1Vp-p, sync negative, 75Ω
AUDIO
Phono
Reference level -5dBu at 6.8kΩ
(Variable from -77dB to reference level)



*1 These cables are not available in some areas. For details, please consult your nearest Sony office.

*2 The NTSC_{4.43} system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.

*3 The Y/C input has priority over the VIDEO input.

2-1 Color video projection systems

RVP-4010Q (NTSC/PAL/SECAM/NTSC_{4.43})

- 40-inch multiscan rear projector unit for extremely bright image projection
- Multiscan capability: horizontal 15 to 85kHz, vertical 38 to 150Hz
- Adopts Optical Coupling CRT for high contrast image display
- Wide viewing angle
- A high resolution of 800 × 800 pixels (RGB)/700TV lines (composite)
- Incorporates handles for mobility
- User-friendly functions when using the projector alone or in multiples
- Supplied wireless/wired remote control RM-PJ4010 for full adjustments and operation of the projector
- Optional IFB series interface boards, SIC series signal interface cables and PC-1271 signal interface switcher available for system versatility

Supplied accessories: Wireless/wired remote control unit: RM-PJ4010

Remote control cable (15m) (x2)

AC power cord

Optional accessories: Interface Board: IFB-11/20/30/101/1000/1200/3000*1

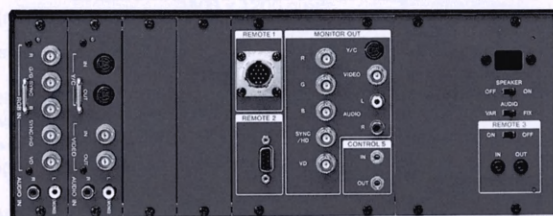
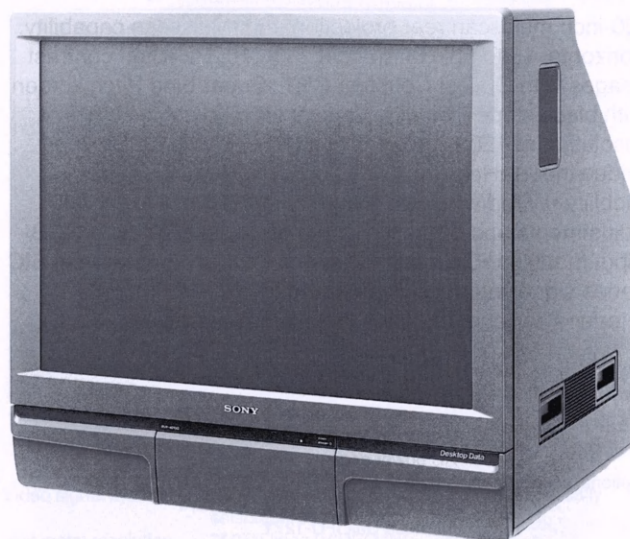
Signal Interface Switcher: PC-1271

Interface unit: IFU-1271

Signal Interface Cable: SIC-10/20/21/22/30

CCQ-BRS Cable*2: (14-pin↔14-pin, 2/5/10/25/50m)

SIC-M Cable*2: (14-pin↔14-pin, 1/5/15/25/50m)



Specifications

General

Projection picture size: 40-inch

Picture tube: 7-inch (5.5V) high luminance monochrome optical coupled with coolant sealed

Projector lens: High performance multi-coated HACC lens, F1.0/96mm

Screen: 0.78mm pitch, Black stripe, (lenticular/fresnel/non-glare (cytop))

Brightness: Peak white: 200fL

All white: 50fL

Viewing angle: Horizontal: ±80°

Vertical: ±60°

Video signal system: NTSC/PAL/SECAM/NTSC_{4.43}*3 (automatically selected)

Scanning frequency: Horizontal: 15 to 85kHz

Vertical: 38 to 150Hz

Horizontal Resolution: 800 × 800 pixels (RGB in measured at fH: 50kHz, fV: 60Hz)

700TV lines (video in)

Speakers: Max. 5W +5W, 8Ω, stereo

Power requirements: AC 120V, 50/60Hz

Power consumption: 590W max.

Weight: 96kg (211 lb 10 oz)

Dimensions: 931(W) × 874(H) × 752(D)mm

(36³/₄ × 34¹/₂ × 29⁵/₈ inches)

Inputs

INPUT A: (supplied with IFB-11)

R/B: BNC, 0.7Vp-p, 75Ω

G/Sync on G: BNC, 0.7Vp-p, 75Ω, or 1Vp-p, sync negative, 75Ω

Sync: Composite sync: BNC
 •Analog level; 0.6 to 8Vp-p, high impedance, positive/negative
 •TTL level; Positive/negative
 HD/VD separate: BNC
 •Analog level; 0.6 to 8Vp-p, high impedance, positive/negative
 •TTL level; Positive/negative

AUDIO: Phono (x2) (stereo or monaural selectable), -5dBu, impedance more than 47kΩ

INPUT B: (supplied with IFB-1000)

VIDEO*4: Loop-through BNC

1Vp-p, sync negative, automatic 75Ω termination*5

Y/C*4: Loop-through Mini DIN 4-pin

Y (luminance):

1Vp-p, sync negative, automatic 75Ω termination*5

C (chrominance):

0.286Vp-p (NTSC), 0.3Vp-p (PAL), automatic 75Ω termination*5

AUDIO: Phono (x2) (stereo or monaural selectable), -5dBu, impedance more than 47kΩ

INPUT C: Open

INPUT D: Open

CONTROL S: Loop-through Mini connector

REMOTE 1: 14-pin connector (male)

REMOTE 2: D-sub 9-pin connector (female, RS-422 port)

REMOTE 3: Loop-through Mini

Outputs

MONITOR OUT:

Video out:

Y/C; Mini DIN 4-pin
 Composite video; BNC

RGB out:

BNC (x5)

Audio out:

Phono (x2) (VAR/FIX)

*1 IFB-11/1000 are supplied. IFB-3000 occupies four slots.

*2 These cable are not available in some areas. For details, please consult your nearest Sony office.

*3 The NTSC_{4.43} system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.

*4 The Y/C input has priority over the VIDEO input.

*5 75Ω termination is automatically set to OFF when connection is made to the OUT connector.

2-1 Color video projection systems

RVP-400Q (NTSC/PAL/SECAM/NTSC^{4,43})

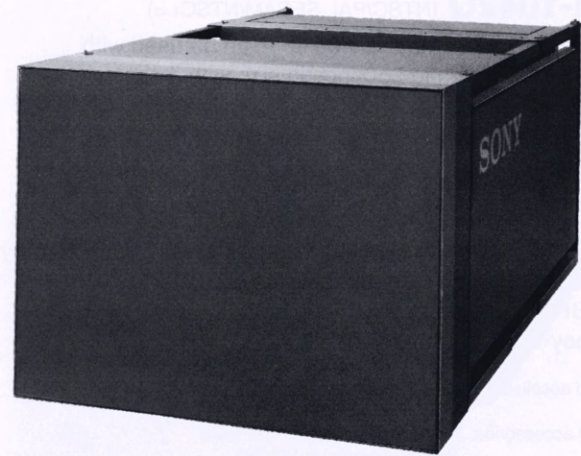
- Suitable for both a multi-screen display and a stand-alone 40-inch projection
- Multiscan capability: horizontal 15 to 50kHz, vertical 38 to 150Hz
- High resolution of more than 640 × 480 pixels (RGB, measured at fH: 50kHz)/600TV lines (composite video)
- Adopts Optical Coupling CRT for high contrast image display
- Up to 4 units can be stacked vertically
- Wide viewing angle: horizontal 110 degrees, vertical 44 degrees
- Thin screen frame of only 5 mm (7/32 inches) wide
- Color temperature selection: 9300K/6500K/3200K/User preset (factory preset: 6500K)
- Automatic power on with the external power feed and presettable delay time for power on
- Optional IFB series interface boards, IFU-1271 interface unit, SIC series signal interface cables, and PC-1271 signal interface switcher available for system versatility
- Optional wired/wireless remote commander RM-1271 with address function for all projector control functions, including input selection, picture control, RGB size and shift and centering controls

- Supplied accessories: Interface board IFB-11/101
Control S connecting cable (1m, 3 ft 3 inches)
Extension board, AC power cord
Operation Manual
- Optional accessories: Remote commander RM-1271
Signal interface switcher PC-1271
Interface unit: IFU-1271
Interface board IFB-11/20/30/1000/1200
Signal interface cable SIC-10/20/21/22/30
CCQ-BRS cable*1 (14-pin↔14-pin, 2/5/10/25/50m)
SIC-M cable*1 (14-pin↔14-pin, 1/5/15/25/50m)
Wireless remote control unit RM-1270S (Supplied with PC-1271)
Remote control receiver RM-PJ10
AC adaptor (for RM-PJ10): AC-E60M

Specifications

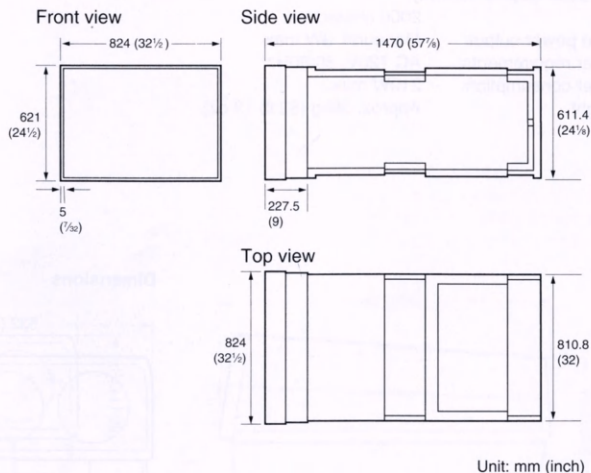
- General**
- Projection picture size: 40-inch: 813(W) × 610(H)mm (2.7 × 2 ft)
- Picture tube: 7-inch high-luminance monochrome optical coupled, with sealed coolant
- Projection lens: High performance HACC lens, F1.0/96mm
- Screen: 1.0mm pitch, Black stripe, Two-layered (lenticular and fresnel)
- Brightness: Peak white: 500 fL
All white: 150 fL
- Contrast ratio: 100:1
- Viewing angle: Horizontal: 110 degrees, Vertical: 44 degrees
- Video signal system: NTSC/PAL/SECAM/NTSC^{4,43}*2 (automatically selected)
- Scanning frequency: Horizontal: 15 to 50kHz
Vertical: 38 to 150Hz
- Horizontal resolution: 640 × 480 pixels (RGB in, measured at fH: 50kHz)
- Power requirements: AC 120V, 50/60 Hz
- Power consumption: 340W max. (Video in), 395W max. (RGB in)
- Weight: 113kg (249 lb 3 oz)

- Input**
- Video**
- Video*3: BNC
1Vp-p, sync negative, 75Ω
- Y/C*3: Mini DIN 4-pin
Y(luminance): 1Vp-p, sync negative, 75Ω
C(chrominance): 0.286Vp-p (NTSC), 0.3Vp-p (PAL), 75Ω
- INPUT A**
- R/B: Supplied with IFB-11
BNC
0.7Vp-p, positive, 75Ω
- G/Sync on G: BNC
0.7Vp-p, Positive, 75Ω ,
1.0Vp-p, sync negative, 75Ω
- Sync: Composite sync: BNC
Analog level: 0.6 to 8Vp-p, high impedance, positive/negative
TTL level: positive/negative
HD/VD separate: BNC
Analog level: 0.6 to 8Vp-p, high impedance, positive/negative
TTL level: positive/negative
- INPUT B** Supplied with IFB-101



- Output**
- Video BNC
1Vp-p, sync negative, 75Ω

Dimensions



*1 These cables are not available in some areas. For details, please consult your nearest Sony office.
*2 The NTSC^{4,43} system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.
*3 The Y/C input has priority over the VIDEO input.

2-1 Color video projection systems

VPH-1042Q (NTSC/PAL/SECAM/NTSC_{4.43})

- Remarkable light output of 600 lm •Can be used with screen from 70-inch to 250-inch in size with a simple adjustment •Y/C input •Adopts high quality lens HACC/HD-6
- Desk top mounted projection, Ceiling mounted projection, Floor mounted projection and Rear projection capabilities
- A high resolution of 1000TV lines or 2000 characters (RGB input) •Accepts an analog RGB •Normal/Blue Background/ Clear Blue switchable •Remote control possible up to 50m by using optional remote control unit VPR-722S and optional CCQ-BRS or SIC-M cable •Designed to be easy-to-operate and easy-to-adjust model for functional use

Supplied accessories: AC power cord

Operation Manual

Optional accessories: Remote control unit: VPR-722S

Projector pedestal: SU-722

Projector suspension support: PSS-722/PSS-10

Carrying case: VLC-1040

CCQ-BRS cables*1 (14-pin↔14-pin, 2/5/10/25/50m)

SIC-M cable*1 (14-pin↔14-pin, 1/5/15/25/50m)

Screen: 120-inch flat screen VPS-120FH

100-inch flat screen VPS-100FH

100-inch concave screen VPS-100HG1

72-inch concave screen VPS-72HG1

70-inch rear screen VPS-701R/700R2

70-inch rear screen frame VPF-701R

VPE/VPL/VPM series for 150-inch to 250-inch projection

Super Bright



Specifications

General

Projection picture size:	70-inch: 1422(W) × 1067(H)mm (4.7 × 3.5 ft) 72-inch: 1463(W) × 1097(H)mm (4.8 × 3.6 ft) 100-inch: 2032(W) × 1524(H)mm (6.7 × 5.0 ft) 120-inch: 2438(W) × 1828(H)mm (8.0 × 6.0 ft) 200-inch: 4064(W) × 3048(H)mm (13.5 × 10.2 ft) 250-inch: 5080(W) × 3810(H)mm (16.7 × 12.5 ft)
Projection distance:	72-inch: 2.5m (8.2 ft) 100-inch: 3.3m (10.8 ft) 200-inch: 6.4m (21.0 ft) 250-inch: 7.1m (23.3 ft)
Picture tube:	5.5-inch high-luminance monochrome tubes, with coolant sealed
Projection lens:	F1.0, 135mm (3 pcs.) High performance hybrid multi-coating lens HACC/HD-6
Projection picture brightness (peak white):	Light output: 600 lm
Video signal system:	NTSC/PAL/SECAM/NTSC _{4.43} *2 (automatically selected)
Horizontal resolution:	1000TV lines (RGB inputs) at centre 650TV lines (VIDEO inputs) at centre
Character display capacity:	2000 characters
Audio power output:	Monaural, 3W max
Power requirements:	AC 120V, 50/60Hz
Power consumption:	210W max.
Weight	Approx. 38kg (83 lb 12 oz)

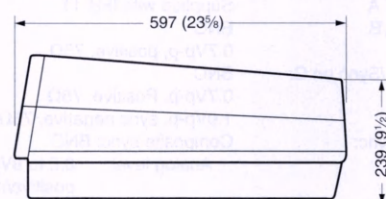
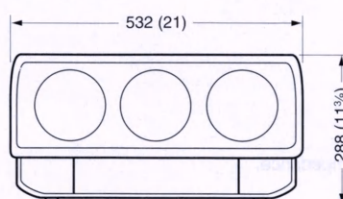
Inputs

Video input*3:	BNC 1.0Vp-p, sync negative, 75Ω
Y/C input (S VIDEO)*3:	Mini DIN 4-pin Y (Luminance): 1Vp-p, sync negative, 75Ω C (Chrominance): 0.286Vp-p (NTSC), 0.3Vp-p (PAL), 75Ω
RGB input:	BNC Non-composite 0.7Vp-p, positive, 75Ω Sync 0.3 to 4.0Vp-p, negative, 75Ω
Audio input:	Phono -5dBu, high impedance

Output

Monitor output:	BNC
-----------------	-----

Dimensions



unit: mm (inch)

*1 These cables are not available in some areas. For details, please consult your nearest Sony office.

*2 The NTSC_{4.43} system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.

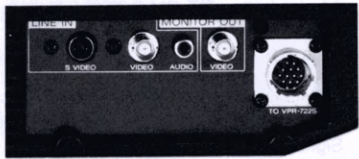
*3 S VIDEO input has priority over composite video input.

2-1 Color video projection systems

VPH-1000Q (NTSC/PAL/SECAM/NTSC^{4,43})

•Remarkable light output of 600 lm •Can be used with screens from 70-inch to 250-inch in size with a simple adjustment •Y/C input •Desk top mounted projection, Ceiling mounted projection, Floor mounted projection and Rear projection capabilities •A high resolution of 1000TV lines or 2000 characters (RGB input) •Remote control possible up to 50m by using optional remote control unit VPR-722S and optional CCQ-BRS or SIC-M cable •Designed to be easy-to-operate and easy-to-adjust model for functional use

- Supplied accessories: AC power cord
Spacer for 200-inch projection
Operation manual
- Optional accessories: Remote control unit: VPR-722S
Projector pedestal: SU-722
Projector suspension support: PSS-722/PSS-10
Carrying case: VLC-1040
CCQ-BRS cables*¹ (14-pin↔14-pin, 2/5/10/25/50m)
SIC-M cable*¹ (14-pin↔14-pin, 1/5/15/25/50m)
Screen: 120-inch flat screen VPS-120FH
100-inch flat screen VPS-100FH
100-inch concave screen VPS-100HG1
72-inch concave screen VPS-72HG1
70-inch rear screen VPS-701R/700R2
70-inch rear screen frame VPF-701R
VPE/VPL/VPM series for 150-inch to 250-inch projection



Specifications

General

- Projection picture size: 70-inch: 1422(W) × 1067(H)mm (4.7 × 3.5 ft)
72-inch: 1463(W) × 1097(H)mm (4.8 × 3.6 ft)
100-inch: 2032(W) × 1524(H)mm (6.7 × 5.0 ft)
120-inch: 2438(W) × 1828(H)mm (8.0 × 6.0 ft)
200-inch: 4064(W) × 3048(H)mm (13.5 × 10.2 ft)
250-inch: 5080(W) × 3810(H)mm (16.7 × 12.5 ft)
- Projection distance: 72-inch: 2.5m (8.2 ft)
100-inch: 3.3m (10.8 ft)
200-inch: 6.4m (21.0 ft)
250-inch: 7.1m (23.3 ft)
- Picture tube: 5.5-inch high-luminance monochrome tubes, with coolant sealed
- Projection lens: F1.0, 130mm (3 pcs.) High performance hybrid multi-coating lens
- Projection picture brightness (peak white):
Light output: 600 lm
- Video signal system: NTSC/PAL/SECAM/NTSC^{4,43}*²
(automatically selected)
- Horizontal resolution: 650TV lines (VIDEO inputs) at centre
- Audio power output: Monaural, 3W max
- Power requirements: AC 120V, 50/60Hz
- Power consumption: 210W
- Weight: Approx. 30kg (66 lb 2 oz)

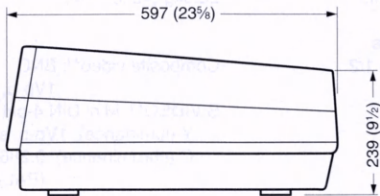
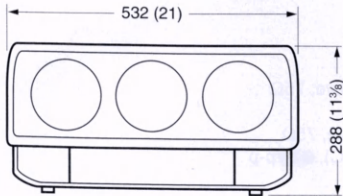
Input

- Video input*³ BNC
1.0Vp-p, sync negative, 75Ω
- Y/C input (S VIDEO)*³ Mini DIN 4-pin:
Y (Luminance): 1Vp-p, sync negative, 75Ω
C (Chrominance): 0.286Vp-p (NTSC),
0.3Vp-p (PAL), 75Ω
- Audio input Phono
-5dBu, high impedance

Output

- Monitor output BNC

Dimensions



unit: mm (inch)

*¹ These cables are not available in some areas. For details, please consult your nearest Sony office.
*² The NTSC^{4,43} system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.
*³ S VIDEO input has priority over composite video input.

2-1 Color video projection systems

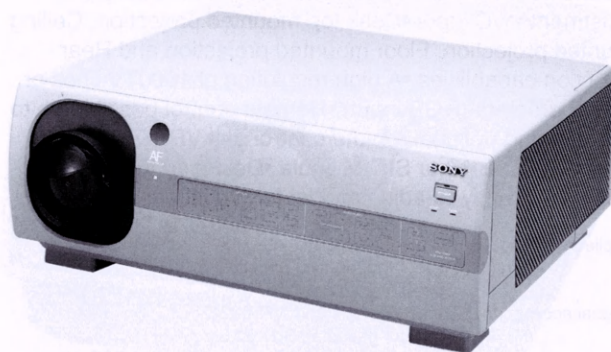
VPL-350Q (NTSC/PAL/SECAM/NTSC_{4.43})

Color video projection systems

- LCD (Liquid Crystal Device)-based projector
- Incorporates three Thin Film Transistor Active Matrix LCD panels for a total of more than one million pixels
- 250W metal halide lamp incorporated
- Picture shift, memory and auto focus functions provided for easy operation
- Double scan capability
- Can be used with VGA (1/2/3) and Macintosh II (13-inch mode)
- Supplied wired/wireless remote control unit RM-PJ350 controls all projector functions such as set-up adjustments and operational functions
- PC-1271 signal interface switcher available for system versatility
- Desk top mounted projection, ceiling mounted projection and floor mounted projection capabilities
- Can be used with screens from 28-inch to 200-inch in size with simple adjustments

Supplied accessories: Wireless/wired remote control unit RM-PJ350
Remote control cable for RM-PJ350 (15m)
AA size battery (for RM-PJ350) (x3)
AC power cord
Lens cap
Operation manual

Optional accessories: Suspension support PSS-10/350
Wireless remote control receiver RM-PJ10
Signal interface switcher PC-1271
100-inch flat screen VPS-100FH
120-inch Flat screen VPS-120FH
Multi-cable*1
CCQ-BRS: (14-pin↔14-pin 2/5/10/25/50m)
SIC-M: (14-pin↔14-pin 1/5/15/25/50m)
Projector lamp PK-350 (for replacement)



Specifications

General

Projection picture size: 28-inch: 569(W) × 427(H)mm (1.9 × 1.4 ft)
50-inch: 1016(W) × 762(H)mm (3.3 × 2.5 ft)
80-inch: 1626(W) × 1219(H)mm (5.4 × 4 ft)
100-inch: 2032(W) × 1524(H)mm (6.6 × 5 ft)
120-inch: 2438(W) × 1828(H)mm (8.0 × 6.0 ft)
200-inch: 4064(W) × 3048(H)mm (13.5 × 10.2 ft)

Projection distance: 28-inch: 1.4m (4.7 ft)
50-inch: 1.4 to 2.5m (4.7 to 8.3 ft)
80-inch: 2.4 to 4.0m (7.9 to 13.2 ft)
100-inch: 2.8 to 5.0m (9.3 to 16.7 ft)
120-inch: 3.4 to 6.0m (11.3 to 20 ft)
200-inch: 5.6 to 10.0m (18.7 to 33.3 ft)

Projection system: 3 LCD panels, 1 lens, projection with primary light shuttering system

LCD panel: 3.2-inch TFT LCD panel, 1,036,800 pixels (345,600 pixels × 3 panels)

Projection lens: Auto focus 1.8 times power zoom lens, f92 to 165mm/F4.6 to 5.8

Projection picture brightness: 250 lm (typical)
normally white 350 lm

Video signal system: NTSC, PAL, SECAM, NTSC_{4.43}*2 (automatically selected)

Resolution: 500TV lines (horizontal),
450TV lines (vertical)

Speaker: Monaural, 2W max.

Power requirements: AC 120V, 50/60Hz

Power consumption: 400W max.

Dimensions: 562(W) × 223(H) × 475(D) mm
(22¹/₄ × 8⁷/₈ × 18³/₄ inches)

Weight: 22.5kg (49 lb 7 oz)

RGB: Analog RGB: D-sub 9-pin
R/B: 0.7Vp-p, positive, 75Ω
G/Sync on G: 0.7Vp-p or 1Vp-p, sync negative, 75Ω
Sync: Composite sync; Analog level 0.6 to 8Vp-p, high impedance
HD/VD separate; Analog level 0.6 to 8Vp-p, high impedance

Audio

Video 1/2: Phono, -5dBu, stereo, impedance more than 47kΩ

RGB: Phono, -5dBu, stereo, impedance more than 47kΩ

Inputs

Video 1/2: Composite video*3: BNC
1Vp-p, sync negative, 75Ω

S VIDEO*3: Mini DIN 4-pin
Y (luminance); 1Vp-p, sync negative, 75Ω
C (chrominance); 0.286Vp-p (NTSC), 0.3Vp-p (PAL), 75Ω

*1 These cables are not available in some areas. For details, please consult your nearest Sony office.

*2 The NTSC_{4.43} system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.

*3 The S VIDEO IN has priority over the composite video in.

2-2 Video projection accessories

VID-P11 (NTSC)

Video presentation stand

- Three-dimensional objects just as well as flat objects such as chart, drawings, books etc. can be displayed on TV monitors and projectors
- 470TV lines resolution for superb picture quality
- Equipped with FADE-IN/OUT switch
- Built-in microphone amplifier with an audio output
- Can be folded and carried like a briefcase
- Built-in one chip CCD color video camera with six times zoom lens
- Equipped with EXT SYNC IN terminal

Pick-up device:

Interline Transfer CCD (Single chip)

Picture element:

768(H) × 494(V)

Approx. 380,000

Horizontal resolution:

470TV lines

Video output:

VBS output 1Vp-p, sync negative, 75Ω, PHONO (×1), BNC (×1), S-VIDEO OUT (BNC)

Y out 1Vp-p, sync negative, 75Ω

C out 0.286Vp-p, sync negative, 75Ω

Audio input:

600Ω, -60dBu unbalanced, PHONE (×1)

Audio output:

68Ω, -5dBu unbalanced, PHONO (×1)

Sync:

Internal/External (Automatic switching)

VBS, VS, SYNC

0.3Vp-p ±6dB

BNC (×1)

Lighting:

21W (×2) (pilot lamp, 2V, BA15S)

Object size to fill screen:

Zoom Wide. 340 × 260mm

(13½ × 10¼ inches)

Zoom Tele. 64 × 50mm

(2 × 2⅝ inches)

Power consumption:

54W

Power requirements:

AC 120V, 60Hz

Weight:

Approx. 10kg (22 lb 0.7 oz)

Supplied accessories:

Soft cover

Lamp (×2)

AC cable

Operation manual

Operating seal

Optional accessory:

PK-10 lamp kit (2 spare bulbs)



gisc

DISPLAY
PRODUCTS

2-2 Video projection accessories

PC-1271

Signal interface switcher for VPH-1272Q/1271Q/1252Q/1251Q, RVP-6000Q/4010Q/400Q and VPL-350Q

- Accepts up to eight signal inputs with IFB interface boards installed (a maximum of sixteen signal inputs with a second PC-1271)
- Connection to VPH-1272Q/1252Q/1271Q/1251Q, RVP-6000Q/4010Q/400Q and VPL-350Q via a single CCQ-BRS or SIC-M multi-cable
- Incorporates cable length compensation to maintain the RGB bandwidth of 100MHz when using a CCQ-BRS or SIC-M cable of up to 50m (165 ft) (Compensation switch selectable according to cable length)
- Can be remotely controlled via a REMOTE 2 (D-sub 25-pin) for use with an external control unit
- Last channel memory
- Supplied RM-1270S remote control unit for easy operation
- 19-inch EIA standard rack mountable with supplied rack mount kit

Supplied accessories: Wireless remote control unit: RM-1270S

AA Size battery (x2)
AC power cord
Rack mount with screws (one pair)
Operation manual
Input label (x2)

Optional accessories: Interface Unit: IFU-1271
Interface Board: IFB-11/20/30/1000/1200/3000*
Signal Interface Cable: SIC-10/20/21/22/30

Specifications

General

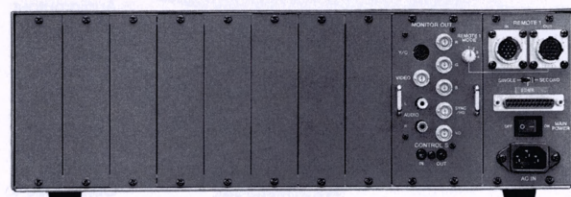
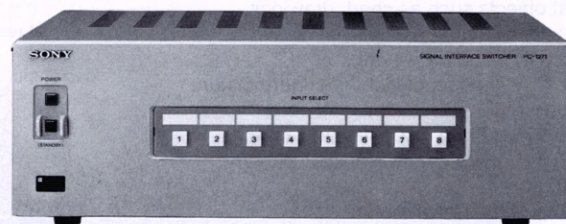
RGB bandwidth: 100MHz (-3dB)
Power requirements: AC 120V, 50/60Hz
Power consumption: Approx. 60W
Dimensions: 424(W) x 133(H) x 290(D)mm
(16³/₄ x 5¹/₄ x 11¹/₂ inches)
Weight: Approx. 8kg (17 lb 10 oz)

Inputs

Input 1 to 8: Open
Remote 1: 14-pin (male), from a second PC-1271
Remote 2: D-sub 25-pin (female) from the external control unit
Control S: Loop-through Mini jack

Outputs

Monitor out:
Video: BNC
1Vp-p, sync negative, 75Ω
Y/C: Mini DIN 4-pin
Y(luminance): 1Vp-p, sync negative, 75Ω
C(chrominance): 0.286Vp-p (NTSC)
0.3Vp-p (PAL), 75Ω
R/B: BNC
0.7Vp-p, positive, 75Ω
G/Sync on G: BNC
0.7Vp-p, positive, 75Ω (Non-composite)
1Vp-p, sync negative, 75Ω (Composite)
HD/VD/HV: BNC
1Vp-p, positive/negative, 75Ω
Audio: Phono (x2)
(stereo or monaural selectable)
-5dBu, impedance 1kΩ
Remote 1: 14-pin (female), To VPH-1272Q/1271Q/1252Q/1251Q, RVP-6000Q/4010Q/400Q or VPL-350Q, or first PC-1271



RM-1270S
(Supplied)

*IFB-3000 can be used with VPH-1272Q/1271Q/1252Q/1251Q only.

2-2 Video projection accessories

VPR-722S

Remote control for VPH-1031Q/ 1042Q/1000Q

- The VPR-722S allows the power ON/OFF and the picture adjustment of projector
- It allows various video/audio equipment to be connected, and the input signal is selected by the input selector

Power requirements:

DC 28V
(supplied from the projector)

Power consumption:

2W max.

Video inputs: 1Vp-p, 75Ω, BNC, phono, 8-pin

Y/C input (S VIDEO):

Mini DIN 4-pin
Y (luminance): 1Vp-p, 75Ω
C (chrominance): 0.286Vp-p
(NTSC), 0.3Vp-p
(PAL), 75Ω

Video outputs: BNC

1Vp-p, 75Ω

Y/C output (S VIDEO):

Loop-through

Audio inputs: Phono

-5dBu, high impedance

Audio outputs: Phono

-5dBu, low impedance

Dimensions: 430(W) × 50(H) × 235(D)mm
(17 × 2 × 9³/₈ inches)

Weight: 2.1kg (4 lb 10 oz)



Optional connecting cable*

(CCQ 14-pin—14-pin): (SIC-M 14-pin—14-pin):

CCQ-2BRS (2m)	SIC-M1 (1m)
CCQ-5BRS (5m)	SIC-M5 (5m)
CCQ-10BRS (10m)	SIC-M15 (15m)
CCQ-25BRS (25m)	SIC-M25 (25m)
CCQ-50BRS (50m)	SIC-M50 (50m)

*These cables are not available in some areas. For details, please consult your nearest Sony office.

IFU-1271

Interface unit for VPH-1272Q/ 1271Q/1252Q/1251Q, RVP-6000Q/ 4010Q/400Q and VPL-3500Q

- One in/two out signal distributor with 100MHz bandwidth*
- Converts digital signal level to analog signal level for output
- Sync output mode selection

Inputs: Blank, Optional IFB board can be plugged in

Output: BNC ×5 (×2), phono (×2)
(stereo or monaural selectable)

Bandwidth: 100MHz (-3dB)

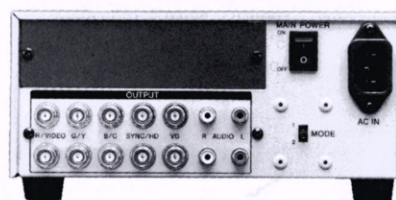
Power requirements:
AC 120V, 50/60Hz

Dimensions: 180(W) × 105(H) × 185(D)mm
(7¹/₈ × 4¹/₄ × 7³/₈ inches)

Weight: Approx. 3kg (6 lb 9.8 oz)

Supplied accessories:

AC power cord,
Operation manual



* The output signal from IFB-1000 is the same as the input. The output signal from IFB-1200 can be changed according to the selection switch on the board (component/RGB).

IFB-11

Interface board for VPH-1272Q/ 1271Q/1252Q/1251Q, RVP-6000Q/ 4010Q/400Q, PC-1271

Inputs
RGB: Analog, BNC (×5)
AUDIO: Phono (×2)
(Stereo or monaural selectable)

Dimensions: 129(W) × 35(H) × 138(D)mm
(5¹/₈ × 1⁷/₁₆ × 5¹/₂ inches)

Weight: Approx. 180g (6.3 oz)



*The IFB-11 is fitted in the VPH-1272Q/1271Q/1252Q/1251Q and RVP-6000Q as standard.

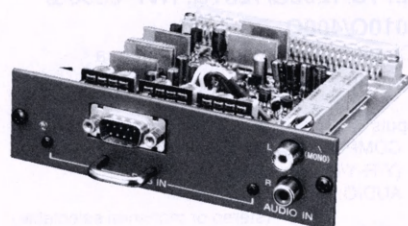
IFB-20

Interface board for VPH-1272Q/ 1271Q/1252Q/1251Q, RVP-6000Q/ 4010Q/400Q, PC-1271

Inputs
RGB: Analog, D-sub 9-pin (male)
AUDIO: Phono (×2)
(Stereo or monaural selectable)

Dimensions: 129(W) × 35(H) × 138(D)mm
(5¹/₈ × 1⁷/₁₆ × 5¹/₂ inches)

Weight: Approx. 170g (6.0 oz)



2-2 Video projection accessories

IFB-30

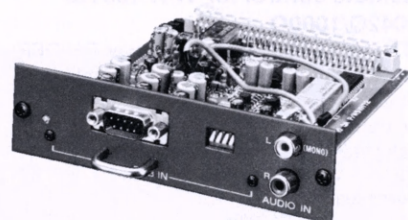
Interface board for VPH-1272Q/
1271Q/1252Q/1251Q, RVP-6000Q/
4010Q/400Q, PC-1271

Inputs

RGB: TTL level, D-sub 9-pin
AUDIO: Phono × 2
(stereo or monaural selectable)

Dimensions: 129(W) × 35(H) × 138(D)mm
(5¹/₈ × 1⁷/₁₆ × 5¹/₂ inches)

Weight: Approx. 110g (3.9 oz)



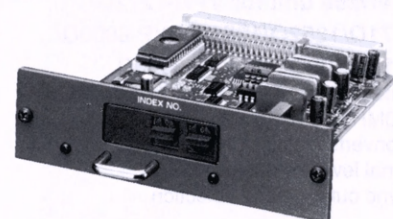
IFB-101

Interface board for VPH-1272Q/
1271Q/1252Q/1251Q, RVP-6000Q/
4010Q/400Q, PC-1271

- Index control for maximum of 100 projectors
- Automatic power on/delayed power on function

Dimensions: 129(W) × 35(H) × 138(D)mm
(5¹/₈ × 1⁷/₁₆ × 5¹/₂ inches)

Weight: Approx. 0.15kg (5.3 oz)



IFB-1000

Interface board for VPH-1272Q/
1271Q/1252Q/1251Q, RVP-6000Q/
4010Q/400Q, PC-1271

Inputs

VIDEO*: Loop-through BNC
Y/C*: Loop-through mini DIN 4-pin
AUDIO: Phono × 2
(Stereo or monaural selectable)

*The Y/C IN has priority over the VIDEO IN.

Dimensions: 129(W) × 35(H) × 138(D)mm
(5¹/₈ × 1⁷/₁₆ × 5¹/₂ inches)

Weight: Approx. 160g (5.6 oz)



IFB-1200

Interface board for VPH-1272Q/
1271Q/1252Q/1251Q, RVP-6000Q/
4010Q/400Q, PC-1271

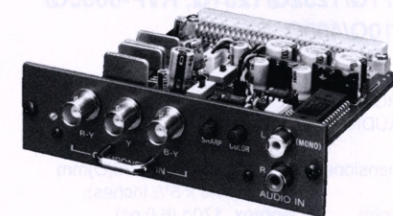
- Can provide component input to a projector

Inputs

COMPONENT: BNC (×3)
(Y/R-Y/B-Y)
AUDIO: Phono × 2
(stereo or monaural selectable)

Dimensions: 129(W) × 35(H) × 138(D)mm
(5¹/₈ × 1⁷/₁₆ × 5¹/₂ inches)

Weight: Approx. 0.18kg (6.3 oz)



IFB-3000

Interface board for double scan capability

- Designed for installation in the PC-1271 Signal Interface Switcher or RVP-4010Q
- Doubles the number of horizontal scanning lines to minimize line-flicker and reduce the visibility of scanning lines
- Contains four inputs; three composite video or Y/C inputs, each with an associated two channel audio input, and one component (Y/R-Y/B-Y) input with two channel audio
- Digital frame memory circuit for improved picture reproduction
 - Detects motion in a picture during the line doubling process for natural reproduction of moving pictures
 - Digital Noise Reducer
 - Aperture correction function for enhanced picture edges, vertically as well as horizontally
 - Three-dimensional Comb Filter for clear luminance/chrominance separation, with choice of either line or frame comb filtering
- Compatible with NTSC/PAL/SECAM/NTSC^{4.43}

Specifications

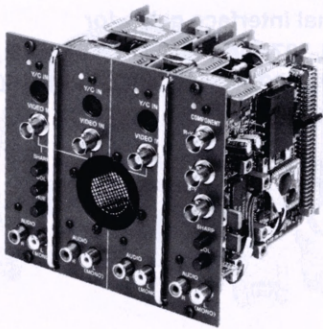
General

- Applicable projector:
VPH-1272Q/1271Q/1252Q/
1251Q, RVP-4010Q
- Color system:
NTSC/PAL/SECAM/NTSC^{4.43}*1
(automatically selected)
- Sampling frequency:
14.3MHz
- Power requirements:
DC 12V (supplied from the
PC-1271 or RVP-4010Q)
- Power consumption:
Approx. 20W
- Dimensions:
141(W) × 129(H) × 138(D)mm
(4⁵/₈ × 5¹/₈ × 5¹/₂ inches)
- Weight:
Approx. 870g (1 lb 15 oz)

Inputs

VIDEO

- VIDEO 1 to 3
- Composite video*2:
BNC
1Vp-p, sync negative, 75Ω
- Y/C*2:
Mini DIN 4-pin
Y (luminance): 1Vp-p, sync
negative, 75Ω
C (chrominance):
0.286Vp-p (NTSC)
0.3Vp-p (PAL), 75Ω
- VIDEO 4
- Y/R-Y/B-Y*3: BNC connector (×3)
R-Y/B-Y: 0.7Vp-p, 75Ω
Y: Composite 1.0Vp-p,
sync negative, 75Ω



*1 The NTSC^{4.43} system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz.

*2 The Y/C inputs have priority over the composite video inputs.

*3 525/60 system: video amplitude 100/0/75 color bars.

625/50 system: video amplitude 100/0/100 color bars.

SIC-10

Signal interface cable for
VPH-1272Q/1271Q/1252Q/1251Q,
RVP-6000Q/4010Q/400Q, VPL-350Q,
PC-1271

Connector: 5BNC/5BNC
Length: 10m (32.8 ft)



SIC-20

Signal interface cable for
VPH-1272Q/1271Q/1252Q/1251Q,
RVP-6000Q/4010Q/400Q, VPL-350Q,
PC-1271

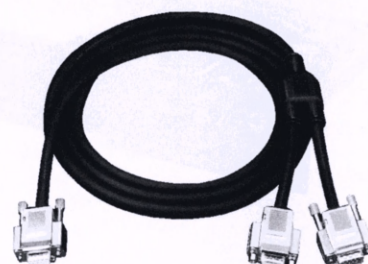
Connector: D-sub 15-pin to local monitor
(female)
D-sub 15-pin to computer (male)
D-sub 9-pin to IFB-20 (female)
Length: 2m (6.6 ft), overall, 0.2m (0.7 ft),
branch



SIC-21

Signal interface cable for
VPH-1272Q/1271Q/1252Q/1251Q,
RVP-6000Q/4010Q/400Q, PC-1271

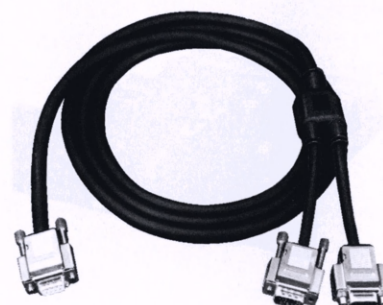
Connector: D-sub 9-pin to local monitor
(female)
D-sub 9-pin to computer (male)
D-sub 9-pin to IFB-20 (female)
Length: 2m (6.6 ft), overall, 0.2m (0.7 ft),
branch



SIC-22

Signal interface cable for
VPH-1272Q/1271Q/1252Q/1251Q,
RVP-6000Q/4010Q/400Q, VPL-350Q,
PC-1271

Connector: High Density 15-pin to local
monitor (female)
High Density 15-pin to computer
(male)
D-sub 9-pin to IFB-20 (female)
Length: 2m (6.6 ft), overall, 0.2m (0.7 ft),
branch



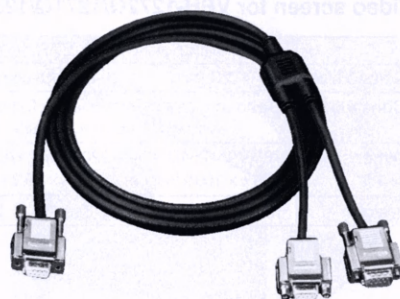
2-2 Video projection accessories

SIC-30

Signal interface cable for
VPH-1272Q/1271Q/1252Q/1251Q,
RVP-6000Q/4010Q/400Q, PC-1271

Connector: D-sub 9-pin to local monitor
(female)
D-sub 9-pin to computer (male)
D-sub 9-pin to IFB-30 (female)

Length: 2m (6.6 ft), overall, 0.2m (0.7 ft),
branch



RM-1271

Remote control unit for
VPH-1272Q/1271Q/1252Q/1251Q/
RVP-6000Q/400Q, and PC-1271

- Can remotely control all operating functions of projectors and switchers, such as input selection, RGB size/shift, centering, and picture control.
- Can control index functions of projectors and switchers

Power requirements: 4.5V DC

Dimensions: 175(W) × 35(H) × 114(D)mm
(7 × 1⁷/₁₆ × 4¹/₂ inches)

Weight: Approx. 0.28kg (9.8 oz)
not including batteries

* RM-1271 is supplied with the VPH-1272Q/1271Q/1252Q/1251Q and RVP-6000Q.



DISPLAY
PRODUCTS

RM-1270S

Remote control unit for
VPH-1272Q/1271Q/1252Q/1251Q/
RVP-6000Q/400Q/PC-1271*

- Can remotely control input selection and power on/off of the projector and switcher

Dimensions: 40(W) × 20(H) × 175(D)mm
(1⁵/₈ × 1³/₁₆ × 7 inches)

Weight: 55g (2 oz)

*RM-1270S is supplied with the PC-1271.



RM-PJ10

Remote control receiver for
VPH-1272Q/1271Q/1252Q/1251Q/
RVP-6000Q*/400Q*, VPL-350Q

Power requirements: DC 6V

Dimensions: Approx.
100(W) × 50(H) × 57(D)mm
(4 × 2 × 2¹/₄ inches)
including mounting bracket

Weight: Approx. 0.1kg (3.5 oz)
including mounting bracket

Supplied accessories:
Remote control cable; 15m
(450 feet)

Screws



*An AC adaptor (AC-E60M) is necessary when using the RM-PJ10 with RVP-6000Q/400Q.

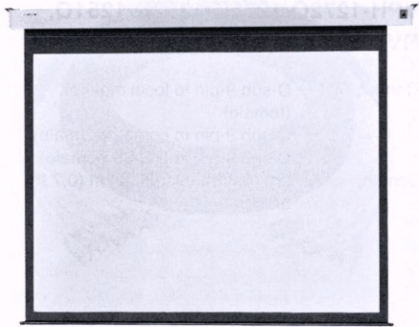
2-2 Video projection accessories

VPS-120FH/100FH/72HG1/100HG1

Video screen for VPH-1272Q/1271Q/1252Q/1251Q/1031Q/1042Q/1000Q, VPL-350Q*

	VPS-120FH	VPS-100FH	VPS-72HG1	VPS-100HG1
Screen size	120-inch	100-inch compatible	72-inch	100-inch
Construction	Beaded glass high-efficiency flat screen with winding mechanism		Aluminized high-efficiency concave screen	
Dimensions	2780(W) × 2545(H)mm (109½ × 100¼ inches)	2200(W) × 1765(H)mm (86¾ × 69½ inches)	1510(W) × 1125(H)mm (59½ × 44¾ inches)	2100(W) × 1600(H)mm (82¾ × 63 inches)
Weight	21kg (46 lb 5 oz)	8kg (17 lb 10 oz)	14 kg (31 lb)	30kg (66 lb 2 oz)

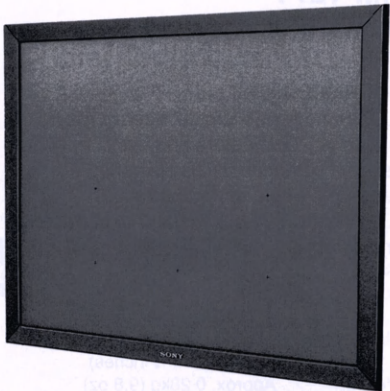
*VPL-3500Q can be used with the VPS-120FH/100FH only.



VPS-701R/700R2

70-inch rear screen for VPH-1272Q/1252Q/1271Q/1251Q/1031Q/1042Q/1000Q

	VPS-701R	VPS-700R2
Screen size	70-inch	
Screen pitch	0.78mm (1/32 inches)	1.2mm (1/6 inches)
Construction	Rear projection, acrylic plastic screen, Two layered (Fresnel, Lenticular), Black stripe	
Dimensions	Max. outer size: 1465(W) × 1110(H) × 4(D)mm (57¾ × 43¾ × 3/16 inches) Valid screen size: 1427(W) × 1070(H)mm (56¼ × 42¼ inches)	
Weight:	Approx. 7.5kg (16 lb 19.5 oz)	Approx. 8.5kg (18 lb 11.8 oz)



VPF-701R

Rear screen frame for VPS-701R/
700R2

Dimensions: Outer size:
1597(W) × 1240(H) × 30(D)mm
(63 × 48⅞ × 1⅜ inches)
Inner size:
1427(W) × 1070(H)mm
(56¼ × 42¼ inches)
Weight: Approx. 8.5kg (18 lb 11.8 oz)
Supplied accessories:
Bracket, screws

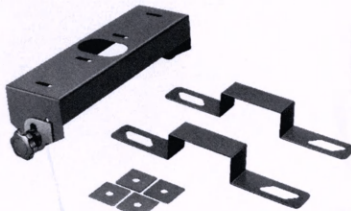
PSS-10/350/722/1270/1272
Suspension support: PSS-10/350 for
VPL-350Q
PSS-10/722 for VPH-1031Q/
1042Q/1000Q
PSS-10/1270 for VPH-1271Q/1251Q
PSS-10/1272 for VPH-1272Q/1252Q

1. Direct installation on the ceiling—
PSS-350/722/1270/1272
2. Installation on the ceiling (height
adjustable)—PSS-10+PSS-350 or
PSS-722, PSS-1270 or PSS-1272

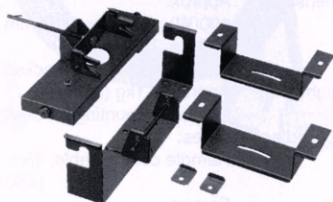
Weight: PSS-10: 10.3kg (22 lb 11 oz)
PSS-350: 5.2kg (11 lb 7 oz)
PSS-722: 1.8kg (3 lb 15 oz)
PSS-1270: 7.8kg (17 lb 3 oz)
PSS-1272: 6kg (13 lb 4 oz)



PSS-10



PSS-722



PSS-1270

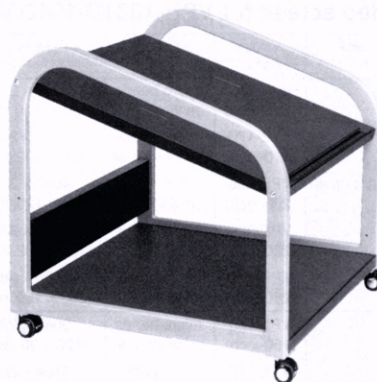
2-2 Video projection accessories

SU-722

Pedestal for VPH-1031Q/1042Q/ 1000Q

•For floor mounting operation used with the
concave screens VPS-72HG1 or
VPS-100HG1

Carrying
capability: Bottom plate 60 kg (132 lb 4 oz)
Shelf 30kg (66 lb 2 oz)
Dimensions: 590(W) × 640(H) × 600(D)mm
(23¹/₄ × 25¹/₄ × 23³/₈ inches)
Weight: 14.6kg (32 lb 3 oz)

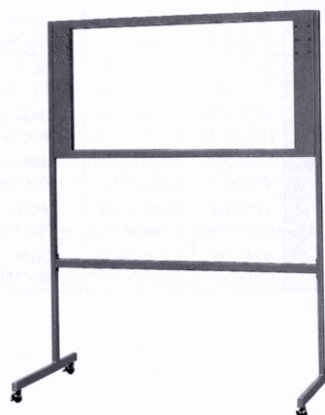


VSS-72/100

Video screen stand for VPS-72HG1 (VSS-72) and VPS-100HG1 (VSS-100)

VSS-72
Dimensions: 1324(W) × 1915(H) × 820(D)mm
(52¹/₄ × 75¹/₂ × 32³/₈ inches)
Weight: 25kg (55 lb 2 oz)

VSS-100
Dimensions: 2200(W) × 1700(H) × 820(D)mm
(86³/₄ × 67 × 32³/₈ inches)
Weight: 29kg (63 lb 15 oz)



DISPLAY
PRODUCTS

VLC-1040

Carrying case for VPH-1031Q/ 1042Q/1000Q

•Suitable for transportation or storage

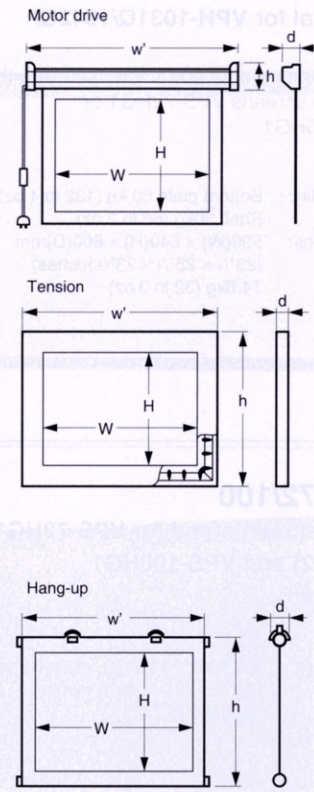
Dimensions: 640(W) × 810(H) × 355(D)mm
(25¹/₄ × 32 × 14 inches)
Weight: 10kg (22 lb 1 oz)



2-2 Video projection accessories

VPE/VPL/VPM series (by Aurora)
Video screen for VPH-1031Q/1042Q/1000Q

Type	Model name	Material	Screen size (W × H)mm	Dimensions (W × H × D)mm	Weight (kg)	Screen seam
Motor drive	VPE-150 (150-inch)	micro beads on white mat	3048 × 2286 (120 × 90.0 inches)	3455 × 150 × 118 (136 × 5.9 × 4.6 inches)	26	horizontal (1)
	VPE-170 (170-inch)	micro beads on white mat	3454 × 2591 (136 × 102 inches)	3862 × 150 × 118 (152 × 5.9 × 4.6 inches)	30	horizontal (1)
	VPE-200 (200-inch)	micro beads on white mat	4064 × 3048 (160 × 120 inches)	5812 × 310 × 248 (228.8 × 12.2 × 9.8 inches)	129	horizontal (1)
	VPE-220 (220-inch)	micro beads on white mat	4470 × 3353 (176 × 132 inches)	6238 × 310 × 248 (245.6 × 12.2 × 9.8 inches)	140	horizontal (1)
	VPE-250 (250-inch)	micro beads on white mat	5080 × 3810 (200 × 150 inches)	6928 × 310 × 248 (272.8 × 12.2 × 9.8 inches)	150	horizontal (2)
Tension	VPL-150 (150-inch)	micro beads on white mat	3048 × 2286 (120 × 90 inches)	3448 × 2286 × 55 (135.8 × 90 × 2.2 inches)	36	vertical (1)
	VPL-170 (170-inch)	micro beads on white mat	3454 × 2591 (136 × 102 inches)	3854 × 2991 × 55 (151.7 × 117.7 × 2.2 inches)	41	vertical (1)
	VPL-200 (200-inch)	micro beads on white mat	4064 × 3048 (160 × 120 inches)	4664 × 3648 × 55 (183.6 × 143.6 × 2.2 inches)	48	vertical (2)
	VPL-220 (220-inch)	micro beads on white mat	4470 × 3353 (176 × 132 inches)	5070 × 3953 × 55 (199.6 × 155.6 × 2.2 inches)	53	vertical (2)
	VPL-250 (250-inch)	micro beads on white mat	5080 × 3810 (200 × 150 inches)	5680 × 4410 × 55 (223.6 × 173.6 × 2.2 inches)	60	vertical (2)
Hang-up	VPM-150 (150-inch)	micro beads on white mat	3048 × 2286 (120 × 90 inches)	3292 × 2456 × 35 (129.6 × 96.7 × 1.4 inches)	9.5	horizontal (1)
	VPM-170 (170-inch)	micro beads on white mat	3454 × 2591 (136 × 102 inches)	3698 × 2761 × 35 (145.6 × 108.7 × 1.4 inches)	11	horizontal (1)
	VPM-200 (200-inch)	micro beads on white mat	4064 × 3048 (160 × 120 inches)	4584 × 3488 × 35 (180.5 × 137.3 × 1.4 inches)	12	horizontal (1)
	VPM-220 (220-inch)	micro beads on white mat	4470 × 3353 (176 × 132 inches)	5010 × 3813 × 35 (197.2 × 150.1 × 1.4 inches)	13	horizontal (1)
	VPM-250 (250-inch)	micro beads on white mat	5080 × 3810 (200 × 150 inches)	5700 × 4350 × 35 (224.4 × 171.2 × 1.4 inches)	15	horizontal (2)



1. Laser VideoDisc recording systems

1-1. Laser VideoDisc recorder/players

LVR-5000A/LVS-5000A	160
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LVA-7000	162
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1-2. Laser VideoDisc accessories

2. VideoDisc players

2-1. VideoDisc players

LDP-3600D	166
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2-2. Peripheral

SMI-3082	169
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2-2. VideoDisc player accessory

3. Multi disc player

MDP-1700AR	171
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1-1 Laser VideoDisc recorder/players

LVR-5000A/LVS-5000A

Laser VideoDisc recorder

- Writable disc media, LVM-3AA0, with the storage capacity of 43,500 still frames or 24 minutes of moving pictures per side
- Capable of long-term storage
- Adopts the component time division multiplex video recording format for the high quality picture performance
- PCM audio recording
- Black and white mode
- Quick random access within 0.5 seconds or less
- NTSC/PAL* signal processing capability
- Provided with RS-232C remote interface and 9-pin REMOTE interface (RS-422A)
- Noiseless picture playback at variable speeds
- Genlock capability
- Multiple video input/output facility
- Wired/wireless remote operation via the RM-W5000 supplied Remote Commander
- The optional RM-9000PR Programmable Remote Controller is available for programming customized playback operation

*With the optional DB-W5000AP PAL board installed in the LVS-5000A.

Supplied accessories

- LVR-5000A: Operation manual
AC power cord
36-pin system control cable
BNC cables (x2)
Remote commander RM-W5000
RS-232C interface manual LDM-5000
9-pin remote interface manual LDM-5422
- LVS-5000A: Operation manual
AC power cord

Optional accessories

- Laser VideoDisc media LVM-3AA0
Programmable remote controller RM-9000PR
Barcode remote controller RM-B2000
PAL board for LVS-5000A DB-W5000AP
Rack mount kit RMM-5000
36-pin control cable (1.5m) RCC-5000
VideoDisc cleaning kit WOA-D11

Specifications

General

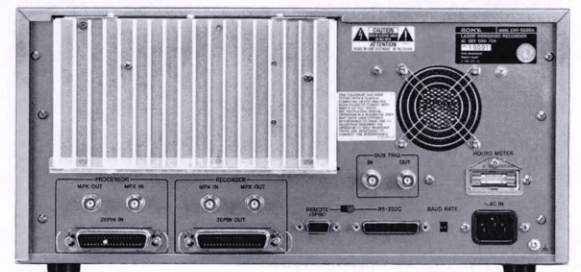
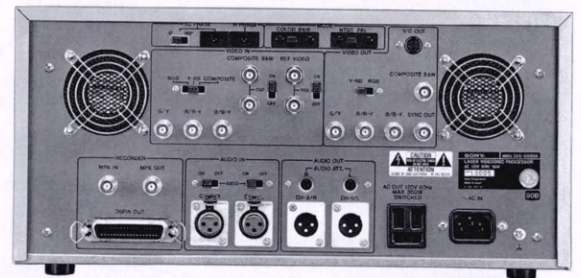
- Power requirements: AC 120V, 60Hz
Power consumption: LVR-5000A: 70W
LVS-5000A: 96W
- Weight: LVR-5000A: 18kg (39 lb 11 oz)
LVS-5000A: 13kg (28 lb 11 oz)
- User data area: 64 Byte x 1024 tracks per side
- Dimensions: LVR-5000A:
375(W) x 180(H) x 530(D)mm
(14⁷/₈ x 7¹/₈ x 20⁷/₈ inches)
LVS-5000A:
375(W) x 180(H) x 490(D)mm
(14⁷/₈ x 7¹/₈ x 19³/₈ inches)

Recording/playback system

- Recording mechanism: Alloy mode
- Laser: Semiconductor diode laser (λ : 780nm)
- Videodisc: 12-inch (300mm) (CAV mode only)
- Maximum playback/recording time and frames: 24 min/side, 43,500 frames/side
- Spindle revolution: 1,800r/min
- Access time: 0.5s (full stroke average)
- Variable speed playback: 1/255 to 3 times normal speed in the forward/reverse direction and still

Video

- Signal: EIA standard, NTSC color
- Input: Composite: 1Vp-p, 75 Ω , unbalanced, sync negative, loop-through BNC
Y/C: Y: 1Vp-p, 75 Ω , unbalanced, sync negative
C: 0.286Vp-p, 75 Ω , unbalanced, Mini DIN 4-pin
Component: Y: 1Vp-p, 75 Ω , unbalanced, sync negative, BNC
R-Y/B-Y: 0.7Vp-p, 75 Ω , unbalanced, BNC
RGB: 0.7Vp-p, 75 Ω , unbalanced, BNC



- Output: Composite: 1Vp-p, 75 Ω , unbalanced, sync negative, BNC
Y/C: Y: 1Vp-p, 75 Ω , unbalanced, sync negative
C: 0.286Vp-p, 75 Ω , unbalanced, Mini DIN 4-pin
Component: Y: 1Vp-p, 75 Ω , unbalanced, sync negative, BNC
R-Y/B-Y: 0.7Vp-p, 75 Ω , unbalanced, BNC
RGB: 0.7Vp-p, 75 Ω , unbalanced, BNC
SYNC: 4Vp-p, 75 Ω , unbalanced, negative, BNC
- Bandwidth (luminance): 4.5MHz (color mode), 6.7MHz (black and white mode)
- Signal-to-noise ratio: 48dB (typical)
- Reference video/EXT. sync input: REF. video: 1Vp-p, 75 Ω switchable, sync negative, loop-through BNC
Sync: 0.2 to 5Vp-p, 75 Ω switchable, negative, loop-through BNC
- Audio
Input CH-1/2: +4dBm, 600 Ω /10k Ω selectable, balanced, XLR (x2)
Output CH-1/2: +4dBm, 600 Ω , balanced, XLR (x2)
Headphone: -46 to -26dBu, 8 Ω load, binaural, unbalanced, Phone
- Dynamic range: 88dB
Frequency response: 20Hz to 15kHz
- External control interface
Interface: RS-232C: 25-pin
REMOTE: 9-pin (RS-422A)

1-1 Laser VideoDisc recorder/players

LVR-3000AN

Laser VideoDisc recorder

•Writable disc media, LVM-3AA0, with the storage capacity of 43,500 still frames or 24 minutes of moving pictures per side •Capable of long-term storage •Adopts the component time division multiplex video recording format for the high quality picture performance •PCM audio recording •Auto Review function for convenient time lapse recording •Quick random access within 0.5 seconds or less •Frame memory function •Provided with RS-232C remote interface and 9-pin REMOTE interface(RS-422A) •Noiseless picture playback at variable speeds •Genlock capability •Multiple video input/output facility •Wired/wireless remote operation via the RM-W3000 supplied Remote Commander •The optional RM-9000PR Programmable Remote Controller available for programming customized playback operation

Supplied accessories: Operation manual

- AC power cord
- Remote commander RM-W3000
- RS-232C interface manual LDM-5000
- 9-pin remote interface manual LDM-5422

Optional accessories:

- Laser VideoDisc media LVM-3AA0
- Programmable remote controller RM-9000PR
- Barcode remote controller RM-B2000
- Rack mount kit RMM-7000A
- 36-pin control cable (1.5m) RCC-5000
- Foot switch FS-20
- VideoDisc cleaning kit WOA-D11

Specifications

General

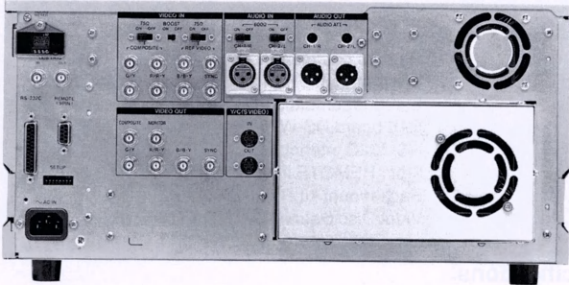
Power requirements: AC 120V, 60Hz
Power consumption: 115W
Weight: 24kg (52 lb 15 oz)
User data area: 64Byte × 1024 tracks per side
Dimensions: 438(W) × 214(H) × 568(D)mm
(17 1/4 × 8 1/2 × 22 3/8 inches)

Recording/playback system

Recording mechanism: Alloy mode
Laser: Semiconductor diode laser (λ:780nm)
Videodisc: 12-inch (300mm) (CAV mode only)
Maximum playback/recording: 24 min/side, 43,500 frames/side
Spindle revolution: 1,800r/min
Access time: 0.5s (full stroke average)
Variable speed: 1/255 to 3 times normal speed in the playback forward/reverse direction and still

Video

Signal: NTSC color
Input: Composite: 1Vp-p, 75Ω switchable, unbalanced, sync negative, loop-through BNC
Y/C: Y: 1Vp-p, 75Ω, unbalanced, sync negative
C: 0.286Vp-p, 75Ω, unbalanced, Mini DIN 4-pin
Component: Y: 1Vp-p, 75Ω, unbalanced, sync negative, BNC
R-Y/B-Y: 0.7Vp-p, 75Ω, unbalanced, BNC
RGB: 0.7Vp-p, 75Ω, unbalanced, BNC
Output: Composite: 1Vp-p, 75Ω, unbalanced, sync negative, BNC
Y/C: Y: 1Vp-p, 75Ω, unbalanced, sync negative
C: 0.286Vp-p, 75Ω, unbalanced, Mini DIN 4-pin
Component: Y: 1Vp-p, 75Ω, unbalanced, sync negative, BNC
R-Y/B-Y: 0.7Vp-p, 75Ω, unbalanced, BNC
RGB: 0.7Vp-p, 75Ω, unbalanced, BNC
MONITOR: 1Vp-p, 75Ω, unbalanced, sync negative, BNC
SYNC: 4Vp-p, 75Ω, unbalanced, negative, BNC
Bandwidth (luminance): 4.5MHz (component video out)
Signal-to-noise ratio: 48dB (typical)
Reference video: 1Vp-p, 75Ω switchable, unbalanced, sync negative, loop-through BNC
External sync input: 0.2 to 5Vp-p, 75Ω, unbalanced, negative, BNC



Audio

Input CH-1/2: +4dBm, 600Ω/10KΩ selectable, balanced, XLR (×2)
Output CH-1/2: +4dBm, 600Ω, balanced, XLR (×2)
Headphone: -46 to -26dBu, 8Ω, unbalanced, phone
Dynamic range: 88dB
Frequency response: 20Hz to 15KHz

External control interface

Interface: RS-232C: 25-pin
REMOTE: 9-pin (RS-422A)

1-1 Laser VideoDisc recorder/players

LVA-7000

Laser VideoDisc player

- High quality picture performance with the component time division multiplex video recording format
- Black and white mode
- Quick random access within 0.5 seconds or less
- Frame memory function
- NTSC/PAL* signal processing capability
- Provided with RS-232C remote interface and 9-pin REMOTE interface (RS-422A)
- Noiseless picture playback at variable speeds
- Genlock capability
- Multiple video input/output facility
- Wired/wireless remote operation via the RM-W7000 optional Remote Commander
- The optional RM-9000PR Programmable Remote Controller is available for creating customized operational programs

*With the optional DB-W7000P PAL board installed.

Supplied accessories: Operation manual
AC power cord

Optional accessories: Laser VideoDisc media LVM-3AA0
Remote commander RM-W7000
Programmable remote controller RM-9000PR
Barcode remote controller RM-B2000
PAL board DB-W7000P
RS-232C interface manual LDM-5000
9-pin REMOTE interface manual LDM-5422
Rack mount kit RMM-7000A
VideoDisc cleaning kit WOA-D11

Specifications

General

Power requirements: AC 120V, 60Hz
Power consumption: 105W
Weight: 22kg (48 lb 8 oz)
Dimensions: 424(W) × 213(H) × 530(D)mm
(16³/₄ × 8¹/₂ × 20⁷/₈ inches)

Playback system

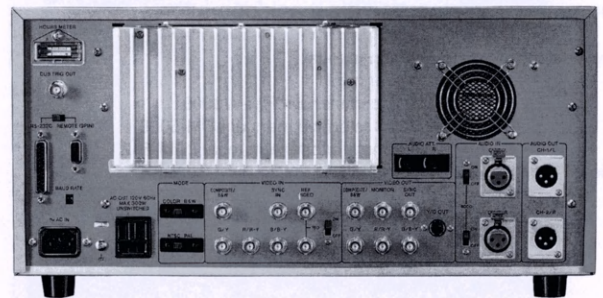
Laser: Semiconductor diode laser (λ: 780nm)
Videodisc: 12-inch (300mm) (CAV mode only)
Maximum playback time and frames: 24 min/side, 43, 500 frames/side
Spindle revolution: 1,800r/min
Access time: 0.5s (full stroke average)
Variable speed playback: 1/255 to 3 times normal speed in the forward/reverse direction and still

Video

Signal: EIA standard, NTSC color
Input: Composite: 1Vp-p, 75Ω, unbalanced, sync negative, BNC
Component: Y: 1Vp-p, 75Ω, unbalanced, sync negative, BNC
R-Y/B-Y: 0.7Vp-p, 75Ω, unbalanced, BNC
Output: RGB: 0.7Vp-p, 75Ω, unbalanced, BNC
Composite: 1Vp-p, 75Ω, unbalanced, sync negative, BNC
Y/C: Y: 1Vp-p, 75Ω, unbalanced, sync negative
C: 0.286Vp-p, 75Ω, unbalanced, Mini DIN 4-pin
Component: Y: 1Vp-p, 75Ω, unbalanced, sync negative, BNC
R-Y/B-Y: 0.7Vp-p, 75Ω, unbalanced, BNC
RGB: 0.7Vp-p, 75Ω, unbalanced, BNC
SYNC: 4Vp-p, 75Ω, unbalanced, BNC
Bandwidth (luminance): 4.5MHz (color mode), 6.7MHz (black and white mode)
Signal-to-noise ratio: 48dB (typical)
Reference video input: 1Vp-p, 75Ω switchable, sync negative, loop-through BNC
External sync input: 0.2 to 5Vp-p, 75Ω, negative, BNC

Audio

Input CH-1/2: +4dBm, 600Ω/10kΩ selectable, balanced, XLR (x2)
Output CH-1/2: +4dBm, 600Ω, balanced, XLR (x2)
Headphone: -46 to -26dBu, 8Ω load, binaural, unbalanced, Phone
Dynamic range: 88dB
Frequency response: 20Hz to 15kHz



External control interface

Interface: RS-232C: 25-pin
REMOTE: 9-pin (RS-422A)

LVA-3500

Laser VideoDisc player

- High quality picture performance with the component time division multiplex video recording format
- Black and white mode
- Quick random access within 0.5 seconds or less*
- Provided with RS-232C remote interface
- Noiseless picture playback at variable speeds*
- Multiple video output facility
- Wired/wireless remote operation via the RM-W7000 optional Remote Commander
- The optional RM-9000PR Programmable Remote Controller is available for creating customized operational programs

*For these operations, either an RM-W7000 or RM-9000PR is required.

Supplied accessories: Operation manual
AC power cord

Optional accessories: Laser VideoDisc media LVM-3AA0
Remote commander RM-W7000
Programmable remote controller RM-9000PR
Barcode remote controller RM-B2000
RS-232C interface manual LDM-5000
Rack mount kit RMM-7000A
VideoDisc cleaning kit WOA-D11

Specifications

General

Power requirements: AC 120V, 60Hz
Power consumption: 85W
Weight: 21kg (46 lb 5 oz)
Dimensions: 424(W) × 213(H) × 530(D)mm
(16³/₄ × 8¹/₂ × 20⁷/₈ inches)

Playback system

Laser: Semiconductor diode laser (λ: 780nm)
Videodisc: 12-inch (300mm) (CAV mode only)
Maximum playback time and frames: 24 min/side, 43, 500 frames/side
Spindle revolution: 1,800r/min
Access time: 0.5s (full stroke average)
Variable speed playback: 1/255 to 3 times normal speed in the forward/reverse direction and still

Video

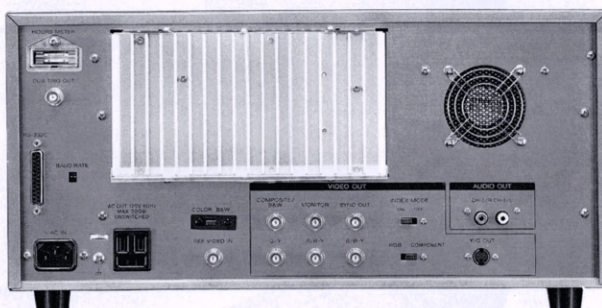
Signal: EIA standard, NTSC color
Output: Composite: 1Vp-p, 75Ω, unbalanced, sync negative, BNC
Y/C: Y: 1Vp-p, 75Ω, unbalanced, sync negative
C: 0.286Vp-p, 75Ω, unbalanced, Mini DIN 4-pin
Component: Y: 1Vp-p, 75Ω, unbalanced, sync negative, BNC
R-Y/B-Y: 0.7Vp-p, 75Ω, unbalanced, BNC
RGB: 0.7Vp-p, 75Ω, unbalanced, BNC
SYNC: 4Vp-p, 75Ω, unbalanced, BNC
Bandwidth (luminance): 4.5MHz (color mode), 6.7MHz (black and white mode)
Signal-to-noise ratio: 48dB (typical)
Reference video input: 1Vp-p, 75Ω, sync negative, BNC

Audio

Output CH-1/2: -5dBu, 47kΩ, unbalanced, Phono (×2)
Headphone: -46 to -26dBu, 8Ω load, binaural, unbalanced, Phone
Dynamic range: 88dB
Frequency response: 20Hz to 15kHz

External control interface

Interface: RS-232C: 25-pin



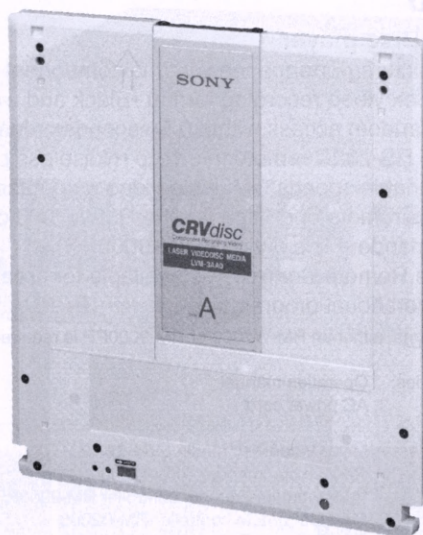
LVM-3AA0

Writable Laser VideoDisc media

•Write-once optical disc media for Laser VideoDisc recording •Long-term storage •Large storage capacity; 43,500 still frames or 24 minutes of moving pictures per side in NTSC, 36,250 still frames or 24 minutes of moving pictures per side in PAL

Specifications

Cartridge Dimensions: 325(W) × 345(H) × 16(D)mm
(12⁷/₈ × 13⁵/₈ × 2¹/₃₂ inches)
Weight: 980g (2 lb 3 oz)



RM-9000PR

Programmable remote controller

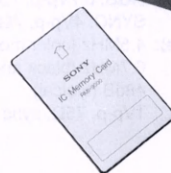
•Controls playback operation of LVR/LVA/LDP series Laser VideoDisc products via the RS-232C interface
•Creates up to eight customized operational programs
•Requires neither special skills nor computer knowledge for programming •Auto repeat/Auto Play capability •Removable RMI-9000 memory card to store up to eight operational programs created on the RM-9000PR •D-sub 25-pin interface connector for connection to custom made control device

*When used with the LDP series, the RM-9000PR can create operational programs effective for frame operation in the CAV mode.

Supplied accessories: Operation manual
IC memory card (1 piece) RMI-9000
RS-232C cross cable SMF-3036C
(D-sub 9-pin/D-sub 25-pin)
Lithium battery (1 piece) CR-2016
Optional accessory: IC memory card (1 piece) RMI-9000

Specifications

Power requirements: AC 120V, 60Hz
Power consumption: 4.5W
Operating temperature: 5 to 35°C (41 to 95°F)
Storage temperature: -20 to 60°C (-4 to 140°F)
Humidity: 25 to 80%
Dimensions: Approx. 280 (W) × 88 (H) × 210 (D)mm
(1¹/₈ × 3¹/₄ × 8³/₈ inches)
Weight: 2.2kg (4 lb 13 oz)
Interface: RS-232C (D-sub 9-pin), compatible with Sony LVR, LVA and LDP series
External Input Terminal (D-sub 25-pin)



1-2 Laser VideoDisc accessories

RM-B2000

Barcode remote controller

- Consists of barcode interface box and laser barcode scanner LBS-1150
 - Controls playback operation of Sony LVR, LVA and LDP series disc equipment
 - Equipped with RS-232C interface •Optional barcode remote commander RM-B1150
- RM-B1150 can be used as an alternative to the LBS-1150

Supplied accessories: RS-232C cable

AC power adaptor AC-E60M

Optional accessory: Wired/wireless laser barcode remote commander RM-B1150

Specifications

Power consumption: 0.6W

Dimensions: Barcode interface box:
106(W) × 40(H) × 160(D)mm
(4¹/₄ × 1⁵/₈ × 6³/₈ inches)

Weight: Barcode interface box: Approx. 500g (1 lb 2 oz)
LBS-1150: Approx. 40g (1.4 oz)

Barcode cable length: 2.0m (6.25 feet)



RM-W7000

- Wired/wireless remote control unit for LVA-7000 and LVA-3500

Specifications

Remote control method: Wireless (Infra-red Pulse Method),

Wired (when supplied cable is connected)

Power requirements: DC 4.5V (Wireless: supplied from three R6 (AA size) batteries;
wired (Supplied from the player)

Dimensions: 70(W) × 20(H) × 210(D)mm
(2⁷/₈ × 1³/₁₆ × 8³/₈ inches)

Weight: Approx. 185g with batteries incorporated
(Approx. 7 oz)

Supplied accessories: R6 (AA size) battery (3)
Connection cord (2m)



DB-W5000AP

- PAL signal processing board for LVS-5000A

Specifications

Dimensions: Approx. 300(W) × 341(H) × 23(D)mm
(11⁷/₈ × 13¹/₂ × 29/₃₂ inches)

Weight: 1200g (2 lb 10 oz)

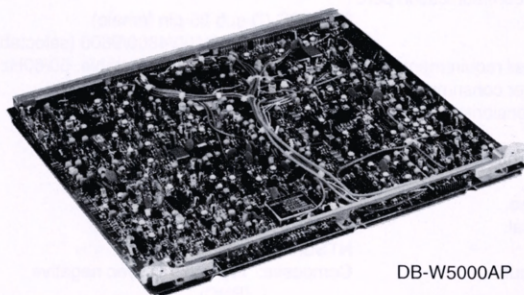
DB-W7000P

- PAL signal processing board for LVA-7000

Specifications

Dimensions: Approx. 150(W) × 351(H) × 23(D)mm
(6 × 13⁷/₈ × 29/₃₂ inches)

Weight: 600g (1 lb 5 oz)



2-1 VideoDisc players

LDP-3600D

VideoDisc player

•Compatible with both NTSC and PAL systems •Suitable for Level III applications •RS-232C interface for connection to external computers •Quick random access within 3 seconds (CAV mode) •Character superimpose capability •Adopts the CX noise reduction system for high fidelity sound reproduction •Wired/wireless remote operation via the RM-2001 optional Remote Control Unit •19-inch standard rack mountable with the optional rack mount kit RMM-121

Supplied accessories: Operation manual
AC power cord

Optional accessories: Interface manual LDM-G1000
Remote control unit RM-2001
Programmable remote controller RM-9000PR
Barcode remote controller RM-B2000
Rack mount kit RMM-121

Specifications

General

Disc format: LaserVision
Pickup method: Laser beam (reflective)
Laser: Semiconductor diode laser ($\lambda=780\text{nm}$)
Maximum playing: 300mm (12-inch) standard play disc (CAV)*1:
30 min/side (NTSC)
36 min/side (PAL)
300mm (12-inch) extended play disc (CLV)*2:
60 min/side
Spindle revolution: CAV: NTSC: 1800r/min
PAL: 1500r/min
CLV: NTSC: 1800r/min (inner circumference) to
600r/min (outer circumference)
PAL: 1500r/min (inner circumference) to
570r/min (outer circumference)
Access time: CAV: 3s or less by frame number search,
10s or less by chapter number search
CLV: 10s or less by chapter number search
Disc size: 300mm (12-inch), 200mm (8-inch)
Ext. communication port: RS-232C (D-sub 25-pin female)
Baud rate: 1200/2400/4800/9600 (selectable)
Power requirements: AC 100/120/220/240V selectable, 50/60Hz
Power consumption: 49W
Dimensions: Approx. 439(W) \times 128(H) \times 430(D)mm
(17³/₈ \times 5¹/₈ \times 17 inches)
Weight: Approx. 10.5kg (23 lb 2 oz)

Video

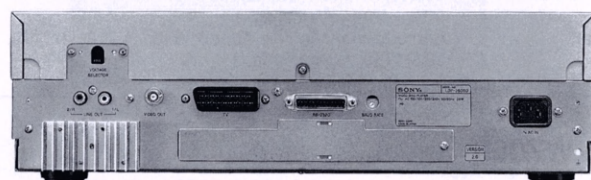
Signal: EIA/CCIR standard
NTSC/PAL color
Output: Composite: 1Vp-p, 75 Ω sync negative
(BNC)
Horizontal resolution: 450TV lines

Audio

Output
Line out: -3.7dBV (1kHz 100% modulation 47k Ω
terminated), unbalanced (Phono \times 2, CENELEC
21-pin)
Headphone out: -20dBV (Variable resistance max. 8 Ω) (Phone)
Frequency response: 40Hz to 20kHz
Signal-to-noise ratio: 66dB (CX on), 56dB (CX off)

*1 CAV: Constant Angular Velocity

*2 CLV: Constant Linear Velocity



2-1 VideoDisc players

LDP-1550

VideoDisc player

- RS-232C interface for connection to external computers
- Multiple track jump function •Quick random access within 2 seconds (CAV mode) •Adopts the CX noise reduction system for high fidelity sound reproduction •Auto repeat function
- Wired/wireless remote operation via the RM-2001 optional Remote Control Unit •Can be synchronized with external sync signals using the optional DB-1550 Sync Lock/Generator board •19-inch standard rack mountable with the optional rack mount kit RMM-201B

Supplied accessory: Operation manual

Optional accessories: Sync lock/generator board DB-1550
Interface manual LDM-1550
Remote control unit RM-2001
Programmable remote controller RM-9000PR
Barcode remote controller RM-B2000
Rack mount kit RMM-201B



Specifications

General

Disc format:	LaserVision
Pickup method:	Laser beam (reflective)
Laser:	Semiconductor diode laser ($\lambda=780\text{nm}$)
Maximum playing:	300mm (12-inch) standard play disc (CAV)*1: 36 min/side 300mm (12-inch) extended play disc (CLV)*2: 60 min/side
Spindle revolution:	CAV: 1800r/min CLV: 1800r/min (inner circumference) to 600r/min (outer circumference)
Access time:	CAV: 2s or less by frame number search 10s or less by chapter number search CLV: 10s or less by time number and chapter number search
Disc size:	300mm (12-inch), 200mm (8-inch)
Ext. communication port:	RS-232C (D-sub 25-pin female) Baud rate: 1200/2400/4800/9600 (selectable)
Power requirements:	AC 120V (with select switch), 60Hz
Power consumption:	36W
Dimensions:	Approx. 424(W) \times 116(H) \times 405(D)mm (16 $\frac{3}{4}$ \times 4 $\frac{5}{8}$ \times 16 inches)
Weight:	Approx. 10.7kg (23 lb 9 oz)

Video

Signal:	EIA standard, NTSC color
Output:	Composite: 1Vp-p, 75 Ω , sync negative (BNC, TV 8-pin connector)
Horizontal resolution:	400TV lines

Audio

Output	
Line out:	0dBV (1kHz 100% modulation 47k Ω terminated), unbalanced (Phono \times 2, TV 8-pin connector) -3.2dBV (CENELEC 21-pin)
Headphone out:	-20dBV (Variable resistance max. 8 Ω) (Phone)
Frequency response:	40Hz to 20kHz
Signal-to-noise ratio:	70dB (CX on), 56dB (CX off)

*1 CAV: Constant Angular Velocity

*2 CLV: Constant Linear Velocity

2-1 VideoDisc players

LDP-1450

VideoDisc player

•Suitable for Level III applications •RS-232C interface for connection to external computers •Quick random access within 2 seconds (CAV mode) •Character superimpose capability •Adopts the CX noise reduction system for high fidelity sound reproduction •Wired/wireless remote operation via the RM-2001 optional Remote Control Unit •19-inch standard rack mountable with the optional rack mount kit RMM-121

- Supplied accessory: Operation manual
Optional accessories: Interface manual LDM-G1000
Remote control unit RM-2001
Programmable remote controller RM-9000PR
Barcode remote controller RM-B2000
Rack mount kit RMM-121

Specifications

General

Disc format:	LaserVision
Pickup method:	Laser beam (reflective)
Laser:	Semiconductor diode laser ($\lambda=780\text{nm}$)
Maximum playing time:	300mm (12-inch) standard play disc (CAV)*1: 36 min/side 300mm (12-inch) extended play disc (CLV)*2: 60 min/side
Spindle revolution:	CAV: 1800r/min CLV: 1800r/min (inner circumference) to 600r/min (outer circumference)
Access time:	CAV: 2s or less by frame number search 10s or less by chapter number search CLV: 10s or less by chapter number search
Disc size:	300mm (12-inch), 200mm (8-inch)
Ext. communication port:	RS-232C (D-sub 25-pin female) Baud rate: 1200/2400/4800/9600 (selectable)
Power requirements:	AC 120V, 60Hz
Power consumption:	38W
Dimensions:	Approx. 430(W) \times 100(H) \times 410(D)mm (17 \times 4 \times 16 1/4 inches)
Weight:	Approx. 9.7kg (21 lb 6 oz)

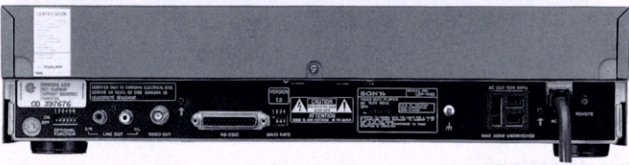
Video

Signal:	EIA standard, NTSC color
Output:	Composite: 1Vp-p, 75 Ω , sync negative (BNC)
Horizontal resolution:	400TV lines

Audio

Output	
Line out:	-3.7dBV (1kHz 100% modulation 47k Ω terminated), unbalanced (Phono \times 2)
Headphone out:	-20dBV (Variable resistance max. 8 Ω) (Phone)
Frequency response:	40Hz to 20kHz
Signal-to-noise ratio:	70dB (CX on), 56dB (CX off)

*1 CAV: Constant Angular Velocity
*2 CLV: Constant Linear Velocity



DISC PRODUCTS

SMI-3082

High scan superimposer

- Upgrades IBM-PC/XT/AT computers to implement interactive video systems
- Provides non-interlace, flicker-free VGA graphics superimposition
- Compatible with CGA, EGA, VGA and advanced VGA

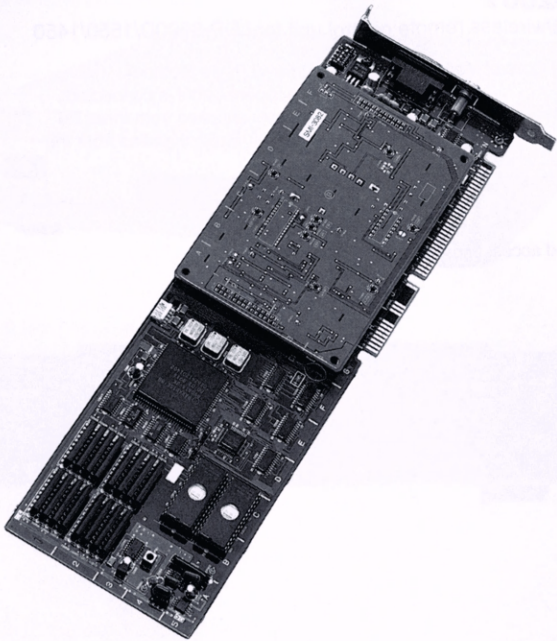
Supplied accessories: Operation manual
Utility software
Optional accessories: SMW-3060C Control program software

Specifications

Display system
Maximum resolution: 640 × 480 pixels/256 colors
Graphics memory: 512K Byte

Connectors
Video-input: Phono (×2)
Analog RGB output: High Density D-sub 15-pin

General
Dimensions: 339(W) × 107(H) × 22(D)mm
(13¹/₈ × 4¹/₄ × ⁷/₈ inches)
Weight: 400g (14 oz)



DISC PRODUCTS

2-3 VideoDisc player accessory

RM-2001

•Wired/wireless remote control unit for LDP-3600D/1550/1450

Remote Control Method:	Wireless (Infra-red Pulse Method), Wired (when supplied cable is connected)
Power requirements:	DC 4.5V (wireless: supplied from three R6 (AA size) batteries, wired: supplied from the player)
Dimensions:	70 (W) × 18 (H) × 200 (D)mm (2 ⁷ / ₈ × 3 ¹ / ₄ × 7 ⁷ / ₈ inches)
Weight:	Approx. 185g (7 oz)
Supplied accessories:	R6 (AA size) battery (3) Connection cord (2m)



3 Multi disc player

MDP-1700AR

Multi disc player

- Auto reverse function•Can play back 12-inch/8-inch videodiscs, 5-inch CDVs, and 5-inch/3-inch Compact Digital Audio discs •Barcode operation with the optional laser barcode scanner LBS-1150 or the barcode remote controller RM-B1700 •Clear scan on CLV laserdiscs •Built-in RF unit
- Wireless remote commander RMT-M23A supplied*

*When the LBS-1150 or RM-B1700 is used, RMT-M23A is not usable.

- Supplied accessories: Operation manual
Remote commander RMT-M23A
Size AA batteries (2 pieces)
Video connecting cord (phono↔phono)
Audio connecting cord (phono × 2↔phono × 2)
Bar Magic Barcode command sheet
- Optional accessories: LBS-1150 Laser barcode scanner
RM-B1700 Barcode remote controller
SMF-5036 Cable kit



Specifications

General

Disc format:	LaserVision
Pickup method:	Laser beam (reflective)
Laser:	Semiconductor diode laser ($\lambda=780\text{nm}$)
Maximum playing time:	LD
	CAV 12-inch double-sided 60 min
	CAV 8-inch double-sided 28 min
	CAV 8-inch single-sided 14 min
	CLV 12-inch double-sided 120 min
	CLV 8-inch double-sided 40 min
	CLV 8-inch single-sided 20 min
	CD 5-inch 74 min
	3-inch 20 min
	CDV Audio 20 min
	Video 5 min
	VSD Video 5 min

Spindle revolution for LD:	CAV 1,800 r/min
	CLV 1,800 r/min to 600 r/min
Access time for LD:	CAV 6s typical
	CLV 9s typical

External communication:	RS-232C (D-sub 25-pin) Port
Baud rate:	1200/2400/4800/9600 (selectable)
Power requirements:	AC 120V, 60 Hz
Power consumption:	40 W
Dimensions:	Approx. 430(W) × 117(H) × 420.5(D)mm (17 × 4 1/2 × 16 5/8 inches)
Weight:	10kg (22 lb 1 oz)

Video

Signal:	EIA standard, NTSC color
Output:	Composite: 1.0Vp-p, 75Ω, sync negative (Phono)
Horizontal resolution:	425TV lines

Audio

Output:	Stereo L/R: Analog: 200 mVrms (1KHz, 40% modulation) (Phono × 2)
	Digital: 200 mVrms (1KHz, -20dB) (Phono × 2)
Headphone output:	28mW (32Ω) (Phone)

*This product will be available soon

1. ProMavica series

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2-1. Still image transceiver

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3-4. Video printer accessories

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1-1 ProMavica system

MVC-7000

Still video camera recorder

•High quality picture due to the adoption of three 1/2-inch Interline Transfer CCD chips •Hi-band recording •Playback and erase capabilities •Bayonet lens mount for variety of lens options •Lenses for Nikon's 35 mm cameras can be used with the optional MCL-200N lens adaptor •Canon FD telephoto lenses can be used with the optional MCL-300C lens adaptor •Equipped with a video output connector to allow connections with an external VTR and monitor •With the optional MKA-7 camera output adaptor provide RGB, Y/R-Y/B-Y and Y/C (S-video) outputs for connection with a wide range of video equipment such as video printers, transmitters, computer graphics systems •Programmed AE/Shutter priority AE/manual control, selectable •Self-adjusting automatic white balance/5800K/3200K/memory mode, selectable •Two modes of ID recording; NORMAL (month/day/year/hour/minute/second/shutter release time) or ID (month/day/year/up to 11 digits of number) •The optional MFL-36 Electronic Flash is available •Wired remote shutter release control capability with the optional RM-S7

Supplied accessories: Shoulder strap

Body cap

Lithium battery

Optional accessories: Output adaptor MKA-7

Electronic flash MFL-36

AC adaptor/battery charger AC-M55

Rechargeable battery pack NP-55H

Rechargeable battery pack NP-77H

Remote control unit RM-S7

Zoom lens MCL-913T

Zoom lens MCL-710H

Zoom lens MCL-806H

Wide lens MCL-05H

Wide lens MCL-06T

Lens adaptor (for Nikon) MCL-200N

Lens adaptor (for Canon) MCL-300C

Still video recorder MVR-5300/5400

Still video disk MP-50/50H



Specifications

Recording format:	Still Video Floppy
Video:	Luminance: FM recording Chrominance: R-Y, B-Y Differential Color Line Sequential FM recording
Recording mode:	Hi-band
Video signal system:	NTSC color
Imager	Three 1/2-inch interline transfer CCD image sensors
Picture elements:	380,000 pixels (768(H) × 494(V))
Lens mount:	Bayonet mount (Sony original)
Focusing system:	Manual
Viewfinder:	TTL optical viewfinder, viewing area 92%
Light metering:	TTL center-weighted and spot metering
Shutter:	Focal plane, 1/8 to 1/2000 second
Flash-sync:	1/250 second (Max. synchronization speed)
White balance:	Self-adjusting automatic white balance, 3200K/5800K/Memory
Drive (shutter) mode:	Single, approx. 2.5 images/s continuous self-timer, interval
Multiplex data:	Normal: Year/Month/Day, Hour/Minute/Second, Aperture value, Shutter speed ID: Year/Month/Day, ID (11 digits)
Video recording mode:	Frame/Field, selectable
Exposure control system:	Programmed AE/Shutter priority AE/Aperture priority AE/Manual mode
EV compensation:	-3EV to +3EV (0.5EV steps)
Normal sensitivity:	Frame recording: ISO 200 (100, 400 selectable) Field recording: ISO 400 (200, 800 selectable)
Recording capacity:	Frame recording: 25 pictures Field recording: 50 pictures
Horizontal resolution:	More than 500TV lines (Hi-band, recorded on floppy disk) More than 650TV lines (Through Video Output)

Inputs:	Remote control (for RM-S7) Hot shoe
Power requirements:	NP-55H/77H Battery Pack Memory back-up lithium battery (CR2032) AC 120V, 50/60Hz (w/ AC-M55)
Power consumption:	9.1W (Standby mode) 6.2W (Playback mode) 8.3W (Video Out mode)
Operating temperature:	0 to 40°C (32 to 104°F)
Storage temperature:	-25 to 60°C (-13 to 140°F)
Dimensions:	168.2(W) × 114(H) × 140(D)mm (6 ⁵ / ₈ × 4 ¹ / ₂ × 5 ⁵ / ₈ inches) w/o lens
Weight:	1.42kg (3 lb 1 oz) (main unit) 2.57kg (5 lb 10 oz) (w/NP-55H, floppy disk and MCL-710H zoom lens)

MVR-5300

Still video recorder

•High quality picture (a horizontal resolution of over 500TV lines) in the Hi-band still video format •Multiple Inputs/Outputs; Composite VIDEO I/O, analog RGB I/O and mini DIN 4-pin Y/C I/O •External sync lock with other video equipment •External control from external computer through an RS-232C port for programme operation and control by a 1kHz tone signal input through the TC SYNC connector for playback and initiating record mode •Simple remote control; from an optional wired remote control unit RM-C540, a wireless remote commander RM-C30 or optional foot switch FS-20 •Auto Play for sequential playback of all the tracks on a disk •Informative on-screen display on an associated monitor •19-inch rack mountable with optional RMM-57K Mount Kit

- Supplied accessories: Operation manual
RS-232C interface manual
- Optional accessories: Remote control unit RM-C540
Wireless remote commander RM-C30
Foot switch FS-20
19-inch rack mount kit RMM-57K
Still video disk MP-50/50H



Specifications

- General**
- Video format: Still Video Floppy
Luminance: FM recording
Chrominance: R-Y, B-Y Color Difference,
Line Sequential FM Recording
- Recording method: Frame or field recording by dual head guard
band method
- Recording capacity: 25 frame pictures (frame recording)
50 field pictures (field recording)
- Recording mode: Hi-band/normal band selectable
- Access time: 30 milliseconds (to the next track) to 1.5 seconds
(from the first track to the fiftieth track)
- Ext. control: RS-232C (D-sub 25-pin female) for
microcomputer control
TC SYNC (Mini-jack) for tape recorder control,
1kHz/0.5 second advances to the next track,
1kHz/2.5 seconds returns to the first picture
track
REMOTE (6 pin mini DIN) for RM-C540 remote
control unit
FOOT SW (Mini-jack) for FS-20 foot switch
EXT. CONT. OUT (Mini-jack) for MPU-F100A
- Power requirement: AC 120V, 60Hz
- Power consumption: Max. 35W
- Dimensions: 424(W) × 97(H) × 455(D)mm
(16 3/4 × 3 7/8 × 18 inches)
- Weight: 8.7kg (19 lb 13 oz)
- Operating temperature: 5 to 35°C (41 to 95°F)

- Video**
- Signal: EIA standard, NTSC color
- Horizontal resolution: 500TV lines (Hi-band)
360TV lines (normal band)
- Signal-to-noise ratio: 45dB (luminance)
46dB (chrominance)
- Video input: Composite (BNC): 1.0Vp-p, 75Ω,
unbalanced, sync negative
Y/C (Mini DIN 4-pin):
Y: 1.0Vp-p, 75Ω, unbalanced, sync negative
C: 0.286Vp-p, 75Ω, unbalanced
RGB (BNC ×3): 0.7Vp-p, 75Ω, unbalanced
Sync (BNC): 0.2 to 4.0Vp-p, 75Ω,
unbalanced, negative
- Video output: Composite (BNC): 1.0Vp-p, 75Ω,
unbalanced, sync negative
Y/C (Mini DIN 4-pin):
Y: 1.0Vp-p, 75Ω, unbalanced, sync negative
C: 0.286Vp-p, 75Ω, unbalanced
RGB (BNC ×3): 0.7Vp-p, 75Ω, unbalanced
Sync (BNC): 4.0Vp-p, 75Ω, unbalanced,
negative

STILL IMAGE
PRODUCTS

1-1 ProMavica system

MVR-5400

Still video recorder/player

- High quality picture due to the adoption of the Hi-band format
- Offers 500TV lines of horizontal resolution (Hi-band mode)
- Both Hi-band and normal band recording/playback capabilities
- A maximum of 25 frame or 50 field pictures or any combination of the two can be recorded on a single video floppy disk
- Audio recording capability
- Multiple inputs/outputs
- Quick random access of 1.5 seconds or less
- Remote control operations using optional RM-C540 or RM-C30
- Cue tone control through the TC SYNC connector
- 11 digits of ID number recording with the aid of RM-C540
- ID number/truck number/recording information display
- Superior quality dubbing via DUB IN and OUT connectors
- 19-inch EIA standard rack mountable with the optional RMM-57K
- Simple connection with MPU-F100A Frame Memory Unit

Supplied accessories: AC power cable

AC cable holder

Operation manual

Optional accessories: Still video disk MP-50/50H

Remote control unit RM-C540

Wireless remote commander RM-C30

Foot switch FS-20

19-inch rack mount kit RMM-57K

Specifications

General

Recording format:

Still video floppy

Video:

Luminance: FM recording

Chrominance: R-Y, B-Y differential color line sequential FM recording

Recording/playback mode:

Hi-band/normal band selectable

Recording method:

Frame or field recording by dual head guard band method

Recording/playback capability:

25 frame pictures (frame REC/PB)

50 field pictures (field REC/PB)

Access time:

30 milliseconds (to the next track) to 1.5 seconds (from the first track to the fiftieth track)

External control:

TC SYNC (Mini-jack) for tape recorder control, 1kHz/0.5 second to the next track, 1kHz/2.5 seconds to outermost picture track
REMOTE (6-pin mini DIN) for RM-C540
FOOT SW (Mini-jack) for FS-20
EXT. CONT. OUT (Mini-jack) for MPU-F100A

Power requirements:

AC 120V, 60Hz

Power consumption:

Approx. 35W

Dimensions:

424(W) × 97(H) × 455(D)mm
(16³/₄ × 3⁷/₈ × 18 inches)

Weight:

9.0 kg (19 lb 13 oz)

Operating temperature:

5 to 35°C (41 to 95°F)

Storage temperature:

-20 to 60°C (-4 to 140°F)



Video

Signal:

EIA standard, NTSC color

Horizontal resolution:

500TV lines (Hi-band),
360TV lines (normal band)

S/N ratio:

45dB (luminance)
46dB (chrominance)

Input:

Composite (BNC): 1.0Vp-p, 75Ω, unbalanced, sync negative
Y/C (Mini DIN 4-pin)

Y: 1.0Vp-p, 75Ω, unbalanced, sync negative
C: 0.286Vp-p, 75Ω, unbalanced

RGB (BNC × 3): 0.7Vp-p, 75Ω, unbalanced

Sync (BNC): 0.2 to 4.0Vp-p, 75Ω, unbalanced, negative

Output:

DUB (D-sub 15-pin) for video/audio dubbing
Composite (BNC): 1.0Vp-p, 75Ω, unbalanced, sync negative

Y/C (Mini DIN 4-pin)

Y: 1.0Vp-p, 75Ω, unbalanced, sync negative
C: 0.286Vp-p, 75Ω, unbalanced

RGB (BNC × 3): 0.7Vp-p, 75Ω, unbalanced

Sync (BNC): 4.0Vp-p, 75Ω, unbalanced, negative

DUB (D-sub 15-pin) for video/audio dubbing

Audio

Input LINE (phono):

-10dBu, more than 47kΩ

MIC for microphone: -55dBu

Output LINE (phono):

-10dBu

MVR-5600

Still video recorder/player

- High quality picture thanks to the adoption of the Hi-band format and offers 500TV lines of horizontal resolution
- Both Hi-band and normal band recording/playback capabilities
- A maximum of 25 frame or 50 field pictures or any combination of the two can be recorded by the MVR-5600 on a single Video Floppy Disk
- Quick random access of 1.5 seconds or less when controlled from the RM-E5500 or the RM-2500
- Simple remote playback operations from the optional RM-52
- External computer control capabilities through the RS-232C interface
- Cue tone control through the TC SYNC connector
- 6 digit ID number recording with the aid of the RM-E5500
- ID number/truck number/recording information display
- Superior quality dubbing via DUB IN and OUT connectors
- Rack mountable in a 19-inch EIA standard rack with the optional RMM-57K
- High reliability and serviceability due to the adoption of a plug-in type disk drive unit
- The RM-E5500 allows control of the program recording/playback in any sequence
- The RM-2500 enables playback in any order
- An external time base corrector such as MPU-F100A can be connected
- Color or B&W mode recording selectable by the AUTO/B&W switch

- Supplied accessories: AC power cable
Operation manual
- Optional accessories: Still video disk MP-50/50H
Remote control unit RM-52
19-inch rack mount kit RMM-57K
Program editing controller RM-E5500
Program controller RM-2500

Specifications

General	
Recording format:	Still video floppy
Video:	Luminance: FM recording Chrominance: R-Y, B-Y differential color line sequential FM recording
Recording method:	Frame or field recording by dual head guard band method
Recording capability:	25 frame pictures (frame recording) 50 field pictures (field recording)
Recording mode:	Hi-band/normal band selectable
Access time:	30 milliseconds (to the next track) to 1.5 seconds (from the first track to the fiftieth track)
External control:	RS-232C: D-sub 25-pin, female for microcomputer control CONTROL-1: D-sub 9-pin female for the RM-52, MPU-F100A CONTROL-2: D-sub 15-pin female for the RM-E5500/2500 TC SYNC: Mini jack for tape recorder control 1kHz/1s to the next track
Power requirements:	AC 120V, 60Hz
Power consumption:	50W
Dimensions:	424(W) × 95(H) × 458(D)mm (16 ³ / ₄ × 3 ³ / ₄ × 17 ³ / ₄ inches)
Weight:	9.5kg (20 lb 15 oz)
Operating temperature:	10 to 35°C (50 to 95°F)

Video	
Signal:	EIA standard, NTSC color
Resolution:	500TV lines (Hi-band) 360TV lines (normal band)
S/N ratio:	45dB (luminance) 46dB (chrominance)
Input:	BNC, 1.0Vp-p, 75Ω, unbalanced, sync negative
Output:	BNC, 1.0Vp-p, 75Ω, unbalanced, sync negative



Analog RGB	
Input:	RGB (BNC × 3): 0.7Vp-p, 75Ω, unbalanced SYNC (BNC): 0.2 to 4.0Vp-p, 75Ω, unbalanced, negative
Output:	RGB (BNC × 3): 0.7Vp-p, 75Ω, unbalanced SYNC (BNC): 4.0Vp-p, 75Ω, unbalanced, negative
Dub	
Input/output:	Multi-connector 16-pin × 2 1.0Vp-p (luminance), 0.7Vp-p (R-Y/B-Y), 75Ω, unbalanced Frame pulse, color ID pulse, control signal
S-video out:	Y/C (Mini DIN 4-pin): Y: 1.0Vp-p, 75Ω, unbalanced, sync negative C: 0.286Vp-p, 75Ω, unbalanced
TBC interface	
External sync input:	(BNC) 75Ω, unbalanced (with one loop-through output)
External SC input:	(BNC) from the external TBC

1-2 ProMavica system accessories

RM-C540

Remote control unit

- Wired remote controller for MVR-5300/5400

Connector: Mini DIN 6-pin

Cable length: 4m

Power requirements:

DC 5V (supplied from
MVR-5300/5400)

Dimensions: 210(W) × 44(H) × 175(D) mm
(8³/₈ × 1³/₄ × 7 inches)

Weight: 600g (1 lb 5 oz)



RM-C30

Wireless remote commander

- Wireless remote controller for MVR-5300/5400

Power requirements:

DC 3V (Size AA batteries—
IEC designation R6 × 2)

Dimensions: 43(W) × 18(H) × 175(D) mm
(1³/₄ × 2³/₃₂ × 7 inches)

Weight: 110g (4 oz) (including batteries)



RM-E5500

Program editing controller for MVR-5600

Program memory capacity: 52 steps

Power requirements: Supplied from the MVR-5600

Memory backup power requirements:

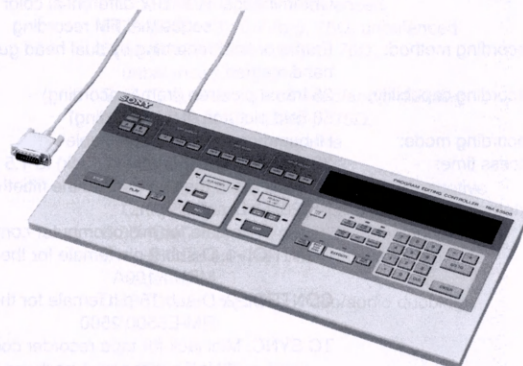
Battery, size AA × 3

Cable length: 3m

Dimensions: 424(W) × 46(H) × 177(D)mm
(16³/₄ × 11³/₁₆ × 7 inches)

Weight: 1.3kg (2 lb 9 oz)

Supplied accessories: Size AA batteries (IEC designation R6 × 3)



RM-2500

Program controller for MVR-5600

Program memory capacity: 52 steps

Power requirement: Supplied from the MVR-5600

Memory backup power requirements:

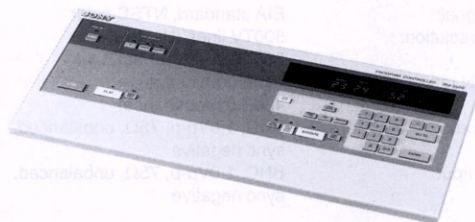
Battery, size AA × 3

Cable length: 3m

Dimensions: 424(W) × 46(H) × 177(D)mm
(16³/₄ × 11³/₁₆ × 7 inches)

Weight: 1.3kg (2 lb 9 oz)

Supplied accessories: Size AA batteries (IEC designation R6 × 3)



1-2 ProMavica system accessories

RM-52

Remote controller for MVR-5600

Dimensions: 52(W) × 138(H) × 21(D)mm
(2¹/₈ × 5¹/₂ × 27¹/₃₂ inches)
Weight: 300g (7 oz)
Cable length: 5m

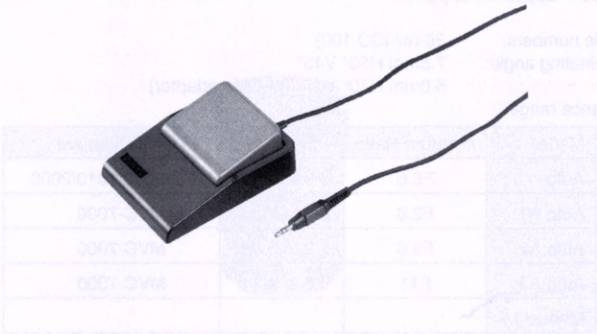


FS-20

Foot switch

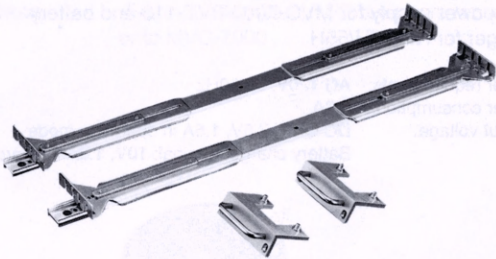
•To record or print an image on a still video recorder or a video printer

Connector: Stereo mini
Cable length: 5m



RMM-57K

19-inch rack mount kit



MP-50/50H

Still video disk

•2-inch floppy disk

Recording capacity: 50 fields/25 frames of still video images



STILL IMAGE
PRODUCTS

1-3 MVC-7000 accessories

MKA-7

Output adaptor

•For MVC-7000

Inputs/Outputs: Interface: 16-pin
RGB OUT: D-sub 9-pin
Y/R-Y, B-Y OUT: D-sub 9-pin
S-Video OUT: Din 4-pin Y/C connector

Dimensions: 48.2(W) × 64.2(H) × 56(D)mm
(1.9 × 2.5 × 2.2 inches)

Weight: 135g (4.8 oz)



MFL-36

Electronic flash

•A fully automatic strobe for MVC-7000
•Wide Adaptor is supplied

Guide numbers: 36 (w/ ISO 100)
Illuminating angle: 7.5mm H50° V45°
5.0mm H70° V57° (w/ wide adaptor)

Distance range:

Mode	Aperture Ratio	Distance	Usable Camera
Auto	F5.6	0.9 to 5.8m	MVC-5000/2010/2000
Auto A1	F2.8	3.2 to 1.3m	MVC-7000
Auto A2	F5.6	1.2 to 6.4m	MVC-7000
Auto A3	F11	0.6 to 3.3m	MVC-7000
Manual M			

Bounce angle: H330° (12 steps), V90° (7 steps)
Flash speed: Less than 1.4ms
Flash times: Flashing interval
(new batteries full flashing)

Battery	Flashing Cycles	Flashing Interval
Alkaline	100 times or more	7s or less
Ni-Cd	60 times or more	5s or less

Dimensions: 75(W) × 144(H) × 72(D)mm
(3 × 5³/₄ × 2⁷/₈ inches)

Weight: 420g (14 oz)



AC-M55

AC adaptor/battery charger

•DC power supply for MVC-7000/PVT-115 and battery charger for NP-77H/55H

Power requirements: AC 120V, 50/60Hz
Power consumption: 0.3A
Output voltage: DC OUT; 7.5V, 1.6A in operating mode
Battery charge terminal; 10V, 1.3A in charge mode



NP-55H

Rechargeable battery pack



NP-77H

Rechargeable battery pack



1-3 MVC-7000 accessories

RM-S7

Remote control unit

- For remote shutter release control

Connectors: Stereo mini
Cable length: 5m



MP-50/50H

Still video disk



MCL-913T

Zoom lens



MCL-710H

Zoom lens



MCL-806H

Zoom lens



MCL-05H

Wide lens



MCL-200N

Lens adaptor

- For mounting telephoto lenses for Nikon 35mm cameras onto MVC-7000



MCL-300C

Lens adaptor

- For mounting Canon FD telephoto lenses onto MVC-7000



STILL IMAGE
PRODUCTS

2-1 Still image transceiver

PVT-115

Portable still image transceiver

- Highly portable picture transmitter; approx. A4 in size (210 × 297 × 60mm) and weighing 1.8kg without batteries
- Superior quality transmission (a horizontal resolution of 500 TV lines or 768 × 480 pixels) in approx. 100 seconds
- Based on the JPEG (Joint Photographic Experts Group) standard image transmission
- Can communicate with Sony DIH-2100P desk-top digital image transmission equipment
- Three-way power operation; from car batteries with DCP-77 battery adaptor, 120V AC power sources with AC-M55 AC adaptor or rechargeable DC batteries NP-55H or NP-77H
- Versatile transmission; over conventional telephone network lines by using an external modem (such as Telebit T2500, Motorola Codex 2266 and Worldport 9600), public telephone, some types of cellular phone or portable phone by using an SMF-1600 acoustic coupler
- Automatic receive and hardcopy print when a VCR and video printer are connected
- Remote image retrieve
- Control the press-to-talk transmission function of suitable radio transmitters* for radio transmission
- Four transmission modes; Fine/Field/Normal/Rough
- Image memory
- RS-232C interface
- An eight alphanumeric security code to prohibit unauthorized access
- Up to ten text message (20 alphanumeric characters) for easy identification
- Automatic Dial

Note: * Some types of radio transmitter cannot be controlled by the PVT-115.

Supplied accessories: Shoulder strap

Operation manual

Optional accessories: LCD colour monitor XV-M30

LCD monitor cable SMF-1230 (BNC ↔ Mini plug)

Acoustic coupler SMF-1600

Rechargeable battery NP-55H, NP-77H

AC adaptor AC-M55

Car Battery charger DCP-77

RGB ↔ 4 BNC cable SMF-1200

(D-sub 9-pin ↔ BNC ×4)

Y/R-Y/B-Y cable SMF-1210

(D-sub 9-pin ↔ 16-pin multiple)

RS-232C cable SMF-1025

(Mini D-sub 15-pin ↔ D-sub 25-pin)

Video control cable SMF-1035

(Mini D-sub 15-pin ↔ Mini plug)

External modem cable SMF-1020

(Mini D-sub 15-pin ↔ D-sub 25-pin)

Carrying case LC-S110

(for PVT-115, XV-M30, SMF-1600 and cables)

Specifications

Picture elements:	768(H) × 480(V)
Horizontal resolution:	500TV lines
	(RGB, Y/R-Y/B-Y, VIDEO, S-VIDEO input)
Data compression method:	JPEG (Joint Photographic Experts Group)
	Standard
Transmission speed	
(w/Telebit T2500/Motorola Codex 2266 Worldport 9600):	
	Fine mode: approx. 110s
	Normal mode: approx. 70s
	Field mode: approx. 50s
	Rough mode: approx. 50s
Communication protocol:	HDLC
Data sampling:	14.3MHz sampling frequency, 8-bit resolution,
	Y/R-Y/B-Y, 4:2:2
Control :	RS-232C (Mini D-sub 15-pin) for VTR, ProMavica or
	Video Printer



Video Input:	NTSC composite (BNC): 1.0 Vp-p, 75Ω Analog RGB (D-sub 9-pin): 0.7Vp-p, 75Ω Y/R-Y/B-Y (D-sub 9-pin): Y: 1.0Vp-p, 75Ω R-Y/B-Y: 0.7Vp-p, 75Ω (100% color bars) S Video Y/C (Mini DIN 4-pin): Y: 1.0Vp-p, 75Ω C: 0.286Vp-p, 75Ω (color burst)
Video Output:	NTSC composite (BNC): 1.0Vp-p, 75Ω Analog RGB (D-sub 9-pin): 0.7Vp-p, 75Ω Y/R-Y/B-Y (D-sub 9-pin): Y: 1.0Vp-p, 75Ω R-Y/B-Y: 0.7Vp-p, 75Ω (100% color bars)
Recommended external Modem:	TELEBIT Trailblazer T-2500 Motorola Codex 2266 MICROCOM AX/9624C
Dimensions:	210(W) × 60(H) × 297(D)mm including projections (8 ³ / ₈ × 2 ³ / ₈ × 11 ³ / ₄ inches)
Weight:	Approx. 1.8kg (3 lb 11 oz) without battery Approx. 2.5kg (5 lb 1 oz) with NP-77H (×2)
Power consumption:	Max. 12W (during image transmission)
Power requirements:	DC 6 to 14V, AC 120V, 50/60Hz with AC-M55 AC adaptor

2-2 Still image transceiver accessories

XV-M30

LCD color monitor

- Compact LCD color monitor to be installed on PVT-115

Screen size:	3 inches
Color standard:	EIA/NTSC
External power input:	DC IN jack (6V)
Power consumption:	Approx. 3W
Dimensions:	99(W) × 84(H) × 38(D)mm (4 × 3 ³ / ₈ × 1 ¹ / ₂ inches)
Weight:	Approx. 230g (8 oz) without batteries



SMF-1600

Acoustic coupler

- Enables transmission of images using PVT-115 through public telephone, cellular phone or portable phone

Mic output impedance:	1kΩ ±30% at 1kHz frequency
Speaker impedance:	150Ω ±30Ω at 1kHz frequency
Connector:	6-pin mini
Cable length:	1m



AC-M55

AC adaptor

- DC power supply for PVT-115 and battery charger for NP-77H/55H

Power requirements:	AC 120V, 50/60Hz
Power consumption:	0.3A
Output voltage:	DC OUT: 7.5V, 1.6A in operating mode Battery charge terminal: 10V, 1.3A in charge mode



LC-S110

Carrying case

- Encases PVT-115, XV-M30, SMF-1600 and cables



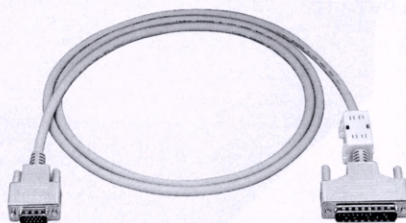
2-2 Still image transceiver accessories

SMF-1020

External modem cable

- RS-232C straight cable to connect PVT-115 and an external modem

Connectors: Mini D-sub 15-pin ↔ D-sub 25-pin
Cable length: 1.5m

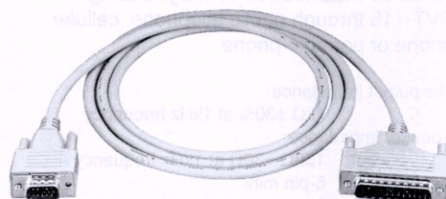


SMF-1025

RS-232C cable

- RS-232C Null modem cable to connect PVT-115 and a colour video printer equipped with an RS-232C interface

Connectors: D-sub 15-pin ↔ D-sub 25-pin
Cable length: 1.5m



SMF-1035

Video control cable

- For connecting PVT-115 to a VTR equipped with a control-S connector

Connectors: Mini D-sub 15-pin ↔ Mini plug
Cable length: 1.5m



SMF-1200

RGB—4BNC cable

- RGB cable to connect PVT-115 to a video product equipped with four BNC connectors

Connectors: D-sub 9-pin ↔ BNC (×4)
Cable length: 1.5m



2-2 Still image transceiver accessories

SMF-1210

Y/R-Y/B-Y cable

•For connecting PVT-115 to a still video recorder with a 16-pin Y/R-Y/B-Y input terminal

Connectors: D-sub 9-pin ↔ 16-pin multiple
Cable length: 1.5m



SMF-1230

LCD monitor cable

•For connecting PVT-115 to XV-M30

Connectors: BNC ↔ Mini plug
Cable length: 1m



3-1 Digital printers

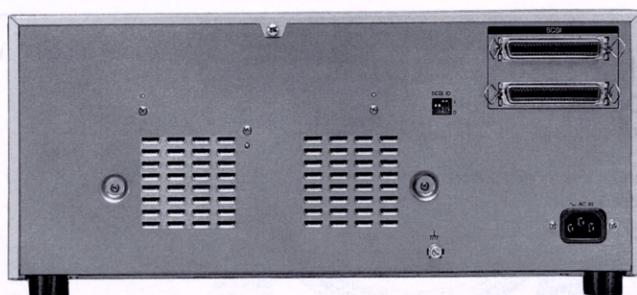
UP-D7000

Digital color printer

- Dye transfer sublimation thermal printing for superior quality print in 256 gradations, and over 16 million color variations
- A thermal head with 1280 elements reproduces high quality output with a resolution of 163 dots per inch
- Letter size color print (216 × 279mm/8½ × 11 inches) in approx. 140 seconds, and black and white in approx. 60 seconds
- SCSI Interface for direct connection to a number of computers and networks in its high data transmission speed (1.5Mbyte/second)
- Offers SCSI through output for cascade connection of up to seven printers from the source signal
- Versatile print control; up to 20 copies print, color adjustment of red, green, blue, dark and light
- Controlled items by the commands through SCSI interface; fine adjustment of aspect ratio (±20mm longitudinally), print orientation of images, print area assignment, data transmission method (Dot sequential or plane sequential)

Supplied accessories: Ink ribbon holder (Color/Black & White/OHP) (×3)
 Paper tray
 Paper cover
 SCSI terminator
 AC power cable
 Operation manual

Optional accessories: Colour print pack UPC-7011
 (100 sheets of print paper and 1 roll of ink ribbon)
 Black and white print pack UPC-7021
 (100 sheets of print paper and 1 roll of ink ribbon)
 OHP print pack UPC-7031
 (100 transparencies and 1 roll of ink ribbon)
 Printer chooser level driver UPS-7002M



Specifications

Printing method:	Dye transfer sublimation thermal printing
Thermal head:	1280 elements
Resolution:	163dpi, 6.4 dots/mm
Paper size:	216 × 279mm (8½ × 11 inches) (Letter)
Picture elements:	1478 × 1280 dots (Letter)
Picture size:	Max. 231 × 200mm (9⅞ × 7⅞ inches)
Picture media:	Ribbon (Color, black and white), paper and transparency
Gradation:	256 gradations for yellow, magenta and cyan (over 16 million colors per dot)
Picture memory:	2048 × 1536 × 8 × 3 bits (RGB 3 channels)
Printing time:	Approx. 150s for color Approx. 60s for black & white
Interface:	SCSI 1 channel (amphenol 50-pin), unbalanced, data transfer speed approx. 1.5Mbyte/s (asynchronous), accepts both dot sequential and plane sequential transmission (×2)
Power requirements:	AC 100 to 120V, 50/60Hz
Power consumption:	Max. 240W
Dimensions:	424 (W) × 177 (H) × 490 (D)mm (16¾ × 7 × 19⅞ inches)
Weight:	Approx. 20kg (44 lb)

3-1 Digital printers

UP-D860

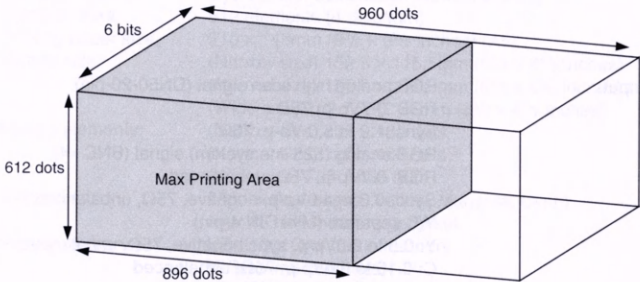
Digital graphic printer

- Monochrome digital graphic printer with 896 picture element dots (horizontally) and 64 steps of gradation
- A first printing speed of less than four seconds
- Compact (154 × 106 × 300mm/6 1/8 × 4 1/4 × 11 7/8 inches) and lightweight (3.6kg/7 lb 15 oz)
- Conforms to the Centronics standard for direct connection to equipment such as a computer and electronic microscope
- Printing paper selectable from UPP-110HD high density type or the UPP-110S normal type thermal paper
- Three gradations, selectable; Soft, Standard and Hard (when using the UPP-110HD high density thermal paper)
- 6:7/1:1 pixel ratio, selectable
- Positive or negative printing
- Normal or reverse direction printing
- Easy paper loading
- Thermal head protection

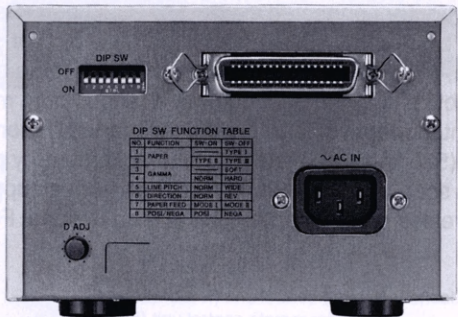
- Supplied accessories: AC power cable
Paper roll UPP-110HD
Head cleaning sheet
Operation manual
- Optional accessories: Printing paper UPP-110S
High density printing paper UPP-110HD

Specifications

- Thermal head: Thin film thermal head
896 dots drive
- Gradation: 64 gray levels
(6-bit internal process, without dithering)
- Memory configuration:



- Printed picture size: 100.3(H) × 69(V)mm (4 × 2 3/4 inches)
- Printing speed: Approx. 4.0 s/print
- Picture elements: 896(H) × 612(V) dots
- Dots density: H: 896/100.3=8.9 dots/mm
V: 612/69=8.9 dots/mm
- Interface connector: Centronics standard, 8-bit parallel,
TTL level, 36-pin Amphenor type
- Power requirements: AC 120V, 50/60Hz
- Power consumption: Max. 1.6A
- Dimensions: 154(W) × 106(H) × 300(D)mm
(6 1/8 × 4 1/4 × 11 7/8 inches)
- Weight: Approx. 3.6kg (7 lb 15 oz)
- Safety regulations: UL-1950, CSA-C22.2 No.950



UP-7000

Color video printer

- High quality full color print with digital process in the frame memory in 8-bit/256 gradations, and over 16 million colors per pixel
- Its thermal head, with 1120 picture element dots, reproduces a high quality output with a resolution of 5.6 dots/mm
- Letter size print (216 × 279mm/8 1/2 × 11 inches) in approx. 140 seconds and a black and white image in approx. 60 seconds
- OHP transparency prints for effective presentations
- Multiscan capability; inputs over a wide range of horizontal scanning frequencies, from 15.75kHz to 35.5kHz is acceptable
- Multiple inputs; four BNC connectors for a 525 line system analog RGB signal input, Y/C (S) connector for Y/C input and a BNC connector for an NTSC composite signal input, and DN50-20-pin multiple connector for analog RGB high scan signal for connection of IBM PS/2 and Apple Macintosh series computers with optional cables
- Menu operation using the function menu displayed on the printer's LCD and on an associated monitor
- Caption setting of up to 50 alphanumeric characters generated by an external computer connected via the RS-232C port
- Set-up menu; horizontal and vertical picture size, H/V picture shift, aspect ratio, etc.
- Up to 20 copies of the same image can be printed out by setting the print quantity
- Various print modes; full size print mode, two, four, eight or sixteen split memory print mode (525 line video images), four split memory print mode (high scan images)
- Remote control; from a supplied wired or wireless remote control unit and an optional FS-20 foot switch

Supplied accessories: Remote control unit (wired/wireless)

Cable for remote control unit (5m)

Ink ribbon holders (Color/Black & White/OHP) (×3)

Paper tray

Paper cover

Dry battery SUM-3 (×2)

AC power cable

Operation manual

Optional accessories: Color print pack UPC-7011 (100 prints)

Black and white print pack UPC-7021 (100 prints)

OHP print pack UPC-7031 (100 prints)

Foot switch FS-20

Interface manual UPM-7000

Video interface cable for Macintosh UPZ-7000M

Video interface cable for IBM PS/2 UPZ-7000I

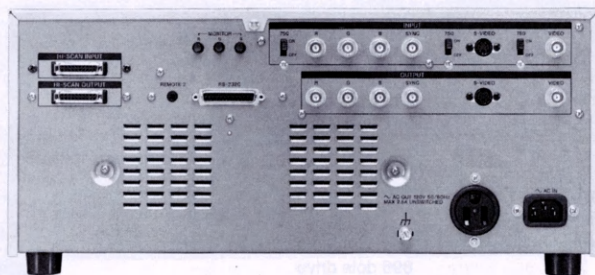
Video interface cable UPZ-7001

Video interface cable UPZ-7002

High line terminator UPZ-7003

Specifications

Printing method:	Dye transfer sublimation thermal printing
Thermal head:	1120 elements (5.6 dots/mm)
Printing paper size:	Letter (216 × 279mm/8 1/2 × 11 inches)
Picture size:	High scan/Full size mode: 171.5 × 228.6mm (7 × 9 inches)
	525 line scan/Full size mode: 167.1 × 219.5mm (6 5/8 × 8 3/4 inches)
Gradations:	256 levels process (Yellow, Magenta, Cyan) over 16 million colors per pixel
Picture memory:	Four frame memories
Printing time:	Approx. 140s for color
	Approx. 60s for black & white



Input:

RGB analog high scan signal (DN50-20-pin)
 RGB: 0.7Vp-p, 75Ω
 Sync: 1.0 to 5.0 Vp-p, 75Ω
 RGB analog (525 line system) signal (BNC ×4)
 RGB: 0.7Vp-p, 75Ω, unbalanced
 Sync: 0.3 to 4.0Vp-p, negative, 75Ω, unbalanced
 Y/C separate (Mini DIN 4-pin)
 Y: 0.5 to 2.0Vp-p, sync negative, 75Ω, unbalanced
 C: 0.15 to 0.6Vp-p, 75Ω, unbalanced
 Composite video (BNC)
 EIA/NTSC 0.5 to 2.0Vp-p, sync negative, 75Ω, unbalanced

Output:

RGB analog high scan signal (DN50-20-pin)
 RGB: 0.7Vp-p, 75Ω
 Sync: 5.0Vp-p, unbalanced
 RGB analog signal (525 line scan) (BNC ×4)
 RGB: 0.7Vp-p, 75Ω, unbalanced
 Sync: 1.0Vp-p, negative, 75Ω, unbalanced
 Y/C separate (Mini DIN 4-pin)
 Y: 1.0Vp-p, sync negative, 75Ω, unbalanced
 C: 0.286Vp-p, 75Ω, unbalanced
 Composite video (BNC)
 EIA/NTSC 1.0Vp-p, sync negative, 75Ω, unbalanced

Control terminal:

RS-232C (D-sub 25-pin)
 Remote control jack (special mini)
 Foot switch jack (stereo mini)

Power requirements:

AC 100 to 120V, 50/60Hz

Power consumption:

Max. 300W

Dimensions:

424(W) × 177(H) × 490(D)mm
 (16 3/4 × 7 × 19 3/8 inches)

Weight:

20kg (44 lb)

3-2 Color video printers

UP-5100/UP-5150

Color video printer

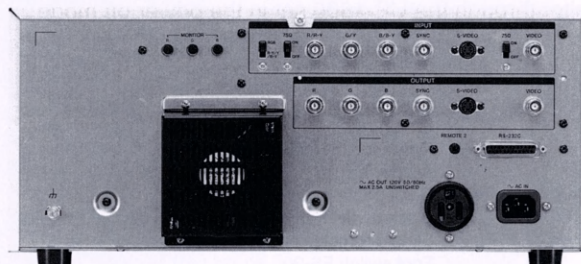
- UP-5100; one frame memory, UP-5150; two frame memories
- High quality print with digital process in the frame memory in 8-bit/256 gradations, and over 16 million colors per pixel
- More than 500TV lines of horizontal resolutions
- A5 size print ($210 \times 148\text{mm}/8\frac{3}{8} \times 5\frac{7}{8}$ inches) at less than 60 seconds
- OHP transparency prints for effective presentation
- Easy-to-use menu operation using the function menu displayed on the printer's LCD and on an associated monitor
- Remote control operation from supplied wired or wireless remote control unit
- Multiple video input; analogue RGB, Y/R-Y/B-Y, Y/C, and composite EIA/NTSC inputs
- Various print modes; normal full size print, 4 or 9 split print, composite print, wide scan mode (Narrow, Normal and Wide) and caption setting
- User friendly operation

Supplied accessories: Remote control unit (w/battery)
Cable for remote control unit (5m)
Paper tray
Print tray
AC power cable
Operation manual

Optional accessories: Color printing pack UPC-5010A
Black & white printing pack UPC-5020A
OHP transparency printing pack UPC-5030
RS-232C command reference book UPM-5000
Foot switch FS-20

Specifications

Printing method:	Dye transfer sublimation thermal printing
Thermal head:	512 elements (4 dots/mm)
Printing paper size:	$210 \times 148\text{mm}$ ($8\frac{3}{8} \times 5\frac{7}{8}$ inches) (A5)
Picture size:	(Narrow size) $152.5 \times 115.5\text{mm}$ ($6\frac{1}{8} \times 4\frac{5}{8}$ inches) (Normal size) $155.0 \times 117.0\text{mm}$ ($6\frac{1}{8} \times 4\frac{5}{8}$ inches) (Wide size) $162.7 \times 121.5\text{mm}$ ($6\frac{1}{2} \times 4\frac{7}{8}$ inches)
Picture elements:	(Narrow size) 708×462 dots (Normal size) 720×468 dots (Wide size) 756×486 dots
Gradations:	256 levels process (Yellow, Magenta, Cyan) over 16 million colors per pixel
Picture memory:	UP-5100: One frame memory (RGB three channels) UP-5150: Two frame memories (RGB three channels)
Printing time:	Less than 60s
Input:	RGB analog or Y/R-Y/B-Y signal (switchable) (BNC $\times 4$, R/R-Y, G/Y, B/B-Y, Sync) RGB: 0.7Vp-p, 75 Ω , unbalanced Sync: 0.2 to 4.0Vp-p, negative, 75 Ω , unbalanced Y: 1.0Vp-p, 75 Ω , sync negative, unbalanced R-Y/B-Y: 0.7Vp-p, 75 Ω , unbalanced Y/C separate (Mini DIN 4-pin) Y: 1.0Vp-p, sync negative, 75 Ω , unbalanced C: 0.286Vp-p, 75 Ω , unbalanced Composite video (BNC) EIA/NTSC 1.0Vp-p, sync negative, 75 Ω , unbalanced
Output:	RGB analog (BNC $\times 4$, R, G, B, Sync) RGB: 0.7Vp-p, 75 Ω , unbalanced Sync: 1.1Vp-p, negative, 75 Ω , unbalanced Y/C separate (Mini DIN 4-pin) Y: 1.0Vp-p, sync negative, 75 Ω , unbalanced C: 0.286Vp-p, 75 Ω , unbalanced Composite video (BNC) EIA/NTSC 1.0Vp-p, sync negative, 75 Ω , unbalanced
Control terminals:	Remote control jack (special mini) Optional foot switch jack (stereo mini) RS-232C interface port (D-sub 25-pin)
Power requirement:	AC 120V, 50/60Hz
Power consumption:	200W (average)
Dimensions:	$424(W) \times 470(D) \times 190(H)\text{mm}$ ($16\frac{3}{4} \times 18\frac{5}{8} \times 7\frac{1}{2}$ inches)
Weight:	15kg (33 lb)



UP-1800

Color video printer

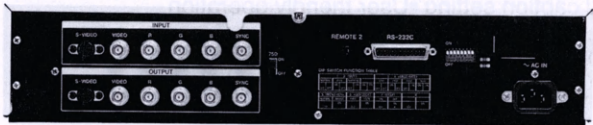
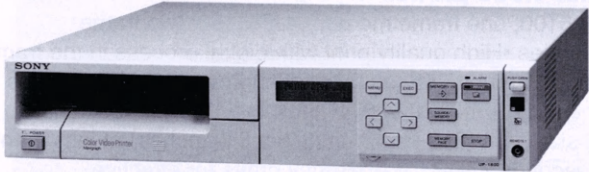
- One frame memory •High quality print with digital process in the frame memory in 8-bit/256 gradations and over 16 million colors per pixel •More than 500TV lines of horizontal resolution •A6 size print (140 × 100mm/5⁵/₈ × 4 inches) in approx. 60 seconds •Easy-to-use operation with function menu display on the built-in LCD or the associated monitor
- Remote control function by an optional foot switch FS-20, remote control unit RM-91 or an external computer via an RS-232C interface •Multiple video input of analogue RGB, Y/C and composite video •Up to 100 consecutive printing
- Up to 128 characters of caption setting •The input image from camera or VTR can be displayed on an associated monitor through the UP-1800 set in the power off mode

Supplied accessories: Remote control unit (with batteries)
Remote control cable (5m)
Color printing pack (for 25 copies)
Paper tray
Operating manual
AC power cable

Optional accessories: Color printing pack UPC-1010
Black & white printing pack UPC-1020
Simple remote controller RM-91
Foot switch FS-20

Specifications

Printing method:	Dye transfer sublimation thermal printing
Thermal head:	512 elements (5.6 dots/mm)
Printing paper size:	140 × 100mm (5 ⁵ / ₈ × 4 inches)
Picture size:	Max. 119.2 × 87.1mm (4 ³ / ₄ × 3 ¹ / ₂ inches)
Picture elements:	Max. 772 × 488 dots
Gradations:	256 levels process (yellow, magenta, cyan) over 16 million colors per pixel
Picture memory:	One frame memory (R, G, B, three channels)
Printing time:	Approx. 60s
Inputs:	RGB analog: BNC (×4), R, G, B, Sync RGB: 0.7Vp-p, 75Ω, unbalanced Sync: 0.2 to 4.0Vp-p, negative, 75Ω, unbalanced Y/C separate: Mini DIN 4-pin Y: 1.0Vp-p, sync negative, 75Ω, unbalanced C: 0.286Vp-p, 75Ω, unbalanced Composite video: BNC, EIA/NTSC 1.0Vp-p, sync negative, 75Ω, unbalanced
Outputs:	RGB analog: BNC (×4), R, G, B, Sync RGB: 0.7Vp-p, 75Ω, unbalanced Sync: 1.0Vp-p, negative, 75Ω, unbalanced Y/C separate: Mini DIN 4-pin Y: 1.0Vp-p, sync negative, 75Ω, unbalanced C: 0.286Vp-p, 75Ω, unbalanced Composite video: BNC, EIA/NTSC 1.0Vp-p, sync negative, 75Ω, unbalanced
Control terminal:	Remote 1: Special mini, for supplied remote controller Remote 2: Stereo mini, for optional foot switch FS-20 or simple remote controller RM-91 RS-232C: D-sub 25-pin
Power requirements:	AC 108 to 132V, 50/60Hz
Power consumption:	Approx. 130W
Dimensions:	424(W) × 91(H) × 413(D)mm (16 ³ / ₄ × 3 ⁵ / ₈ × 16 ³ / ₈ inches)
Weight:	Approx. 8.5kg (18 lb 12 oz)



3-2 Color video printers

UP-1200

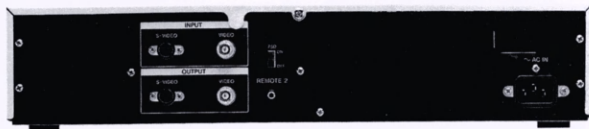
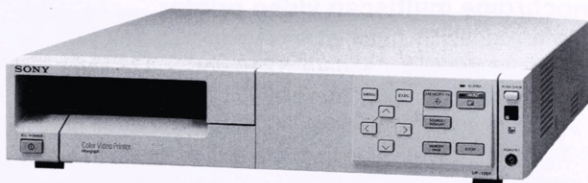
Color video printer

- High quality print with digital process in the frame memory in 8-bit/256 gradations and over 16 million colors per pixel
- More than 500TV lines of horizontal resolution
- A6 size print (140 × 100mm/5⁵/₈ × 4 inches) in approx. 60 seconds
- Easy-to-use operation with function menu display on an associated monitor
- Remote control function by a supplied remote controller, an optional foot switch FS-20, or remote control unit RM-91
- Multiple video input of Y/C and composite video
- Up to 100 consecutive printing
- Up to 60 characters of caption setting
- The input image from camera or VTR can be displayed on an associated monitor through the UP-1200 set in the power off mode

- Supplied accessories:
- Remote control unit (with batteries)
 - Remote control cable (5m)
 - Color printing pack (for 25 copies)
 - Paper tray
 - Operating manual
 - AC power cable
- Optional accessories:
- Color printing pack UPC-1010
 - Black & white printing pack UPC-1020
 - Simple remote controller RM-91
 - Foot switch FS-20

Specifications

- Printing method: Dye transfer sublimation thermal printing
- Thermal head: 512 elements (5.6 dots/mm)
- Printing paper size: 140 × 100mm (5⁵/₈ × 4 inches)
- Picture size: Max. 119.2 × 87.1mm (4³/₄ × 3¹/₂ inches)
- Picture elements: Max. 772 × 488 dots
- Gradations: 256 levels process (yellow, magenta, cyan)
over 16 million colors per pixel
- Picture memory: One frame memory (R, G, B, three channels)
- Printing time: Approx. 60s
- Inputs:
- Y/C separate: Mini DIN 4-pin
 - Y: 1.0Vp-p, sync negative, 75Ω, unbalanced
 - C: 0.286Vp-p, 75Ω, unbalanced
 - Composite video: BNC, EIA/NTSC 1.0Vp-p, sync negative, 75Ω, unbalanced
- Outputs:
- Y/C separate: Mini DIN 4-pin
 - Y: 1.0Vp-p, sync negative, 75Ω, unbalanced
 - C: 0.286Vp-p, 75Ω, unbalanced
 - Composite video: BNC, EIA/NTSC 1.0Vp-p, sync negative, 75Ω, unbalanced
- Control terminal:
- Remote 1: Special mini, for supplied remote controller
 - Remote 2: Stereo mini, for optional foot switch FS-20 or simple remote controller RM-91
- Power requirements: AC 108 to 132V, 50/60Hz
- Power consumption: Approx. 130W
- Dimensions: 424(W) × 91(H) × 413(D)mm
(16³/₄ × 3⁵/₈ × 16³/₈ inches)
- Weight: Approx. 8.5kg (18 lb 12 oz)



UP-930 (EIA/CCIR)

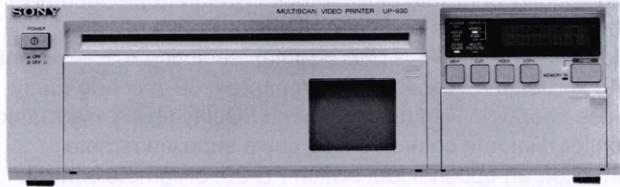
Monochrome multiscan video printer

- Multiscan capability (max. scanning rate: approx. 50kHz)
- Large print size (EIA standard: 1216 dots × 478 lines, 190 × 141mm at normal direction print mode)
- Multiple print modes (up to four split pictures)
- 128 gradations of gray level by 7-bit digital processing
- Two types of input video signals of Composite video (BNC)/RGB analog or TTL (D-sub 15-pin)
- Scan adjust function (Scanning size and aspect ratio)
- Selectable printing direction (Normal/Reverse—180° rotation/Side—90° rotation)
- Auto paper cut function
- RS-232C interface for an external computer control
- Medical safety regulation (UL-544, CSA C22.2 No.220 and No.125 approved)

- Supplied accessories: AC power cable
Printing paper UPP-216HD
Paper shaft
Head cleaning sheet
BNC-BNC connecting cable (1.5 m)
Operation manual
- Optional accessories: RGB cable SMF-3005
Video interface cable for IBM PS/2 UPZ-930I
Video interface cable for Apple Macintosh UPZ-930M
Foot switch FS-20
Remote control unit RM-91
High density printing paper UPP-216HD
Normal density printing paper UPP-216SE

Specifications

- Printing method: Direct thermal printing
Thermal head: Thin-film thermal head, 1280-dot drive (× 2)
Picture size: Normal direction:
(at aspect ratio 4:3) 190 × 141mm (7½ × 5⅝ inches) (EIA)
190 × 141mm (7½ × 5⅝ inches) (CCIR)
Side direction:
200 × 149mm (7⅞ × 5⅞ inches) (EIA)
240 × 178mm (9½ × 7⅞ inches) (CCIR)
- Picture elements: 1216 dots × 478 lines (EIA)
1216 dots × 570 lines (CCIR)
- Gradations: 128 (black and white)
- Picture memory: 2Mbytes
- Printing time: Approx. 20 s/screen
(at normal direction, CCIR)
- Input terminal: Video In (BNC)
Composite video signals 1.0Vp-p,
75Ω/high-impedance
RGB In (D-sub 15-pin)
Composite sync/Separate sync/Sync on G,
0.7Vp-p (analogue)/5Vp-p (TTL),
75Ω/high-impedance
- Output terminal: Video Out (BNC): Loop-through
RGB Out (D-sub 15-pin): Loop-through
- Remote terminal: REMOTE (for the optional foot switch FS-20 or
remote control unit RM-91): stereo mini jack
RS-232C: D-sub 25-pin
- Sampling frequency: Max. 40MHz
- Scanning rate: Approx. 15Hz to 50kHz
- Power requirements: AC 100 to 120V, 50/60Hz
- Power consumption: Max. 3.5A
- Dimensions: 424(W) × 130(H) × 380(D)mm
(16¾ × 5⅞ × 15 inches)
- Weight: Approx. 10.5kg (23 lb)



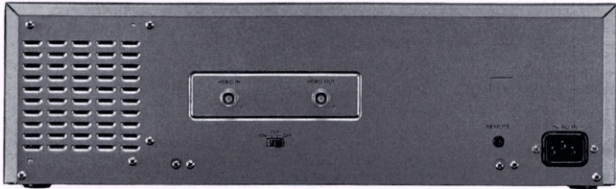
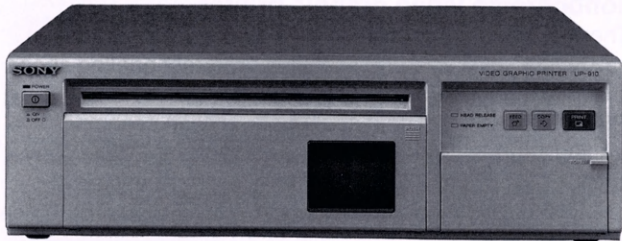
3-3 Monochrome video graphic printers

UP-910 (EIA/CCIR)

Monochrome video graphic printer

- Large print size (182 × 140mm in normal scan mode, 200 × 150mm in wide 2 scan mode, at aspect ratio 4:3)
- High quality printing of a horizontal resolution of 768 dots and 128 gradations of gray level
- High speed printing (approx. 20 seconds)
- Frame/Field memory selectable
- Printing direction selectable: Normal/Reverse (180° rotation)
- Normal/Wide scan selectable
- 4:3/1:1 aspect ratio selectable
- EIA/CCIR automatic selection
- Multiple copy function by pressing the "COPY" button
- Safety regulations (UL-544, CSA C 22.2 No.220 and No.125 approved)

- Supplied accessories: AC power cable
Paper roll UP-216HD
Paper shaft
Head cleaning sheet
BNC-BNC connecting cable (1.5m)
Operation manual
- Optional accessories: Foot switch FS-20
Remote control unit RM-91
High density printing paper UPP-216HD
Normal density printing paper UPP-216SE



Specifications

- Printing method: Direct thermal printing
Thermal head: Thin film thermal head (with built-in drive IC)
768-dot drive
- Picture size: EIA/CCIR
(at aspect ratio 4:3)
Normal scan mode: 182 × 140mm (7 1/4 × 5 5/8 inches)
Wide 1 scan mode: 192 × 146mm (7 5/8 × 5 3/4 inches)
Wide 2 scan mode: 200 × 150mm (7 7/8 × 6 inches)
(at aspect ratio 1:1)
Normal scan mode: 182mm × 182mm (7 1/4 × 7 1/4 inches)
Wide 1 scan mode: 192 × 192mm (7 5/8 × 7 5/8 inches)
Wide 2 scan mode: 200 × 200mm (7 7/8 × 7 7/8 inches)
- Picture elements: (EIA)
Normal scan mode: 700 dots × 472 lines
Wide 1 scan mode: 736 dots × 490 lines
Wide 2 scan mode: 768 dots × 508 lines
(CCIR)
Normal scan mode: 700 dots × 560 lines
Wide 1 scan mode: 736 dots × 582 lines
Wide 2 scan mode: 768 dots × 608 lines
- Gradations: 128 (black and white)
- Picture memory: One frame memory (600k × 6 bits)
- Printing time: Approx. 20 seconds/screen (at aspect ratio 4:3)
- Input terminal: VIDEO IN (BNC)
EIA/NTSC or CCIR/PAL composite: 1.0Vp-p,
75Ω/high-impedance (switchable)
- Output terminal: VIDEO OUT (BNC) Loop-through
- Remote terminal: REMOTE (for the optional foot switch FS-20 or remote control unit RM-91): Stereo mini jack
- Power requirements: AC 100 to 120V, 50/60Hz
- Power consumption: Max. 2.5A, 190W
- Dimensions: 424(W) × 130(H) × 380(D)mm
(16 3/4 × 5 1/8 × 15 inches)
- Weight: Approx. 9.1kg (20 lb 1 oz)
- Safety regulation: UL-544, CSA C 22.2 No.220 and No.125

3-3 Monochrome video graphic printers

UP-860 (EIA/CCIR)

Monochrome video graphic printer

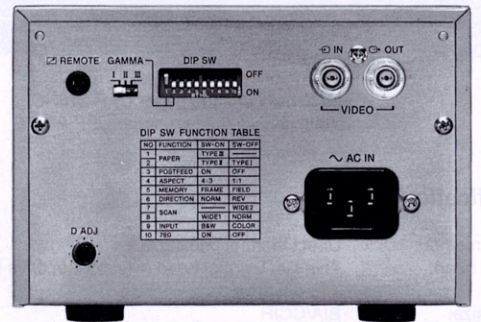
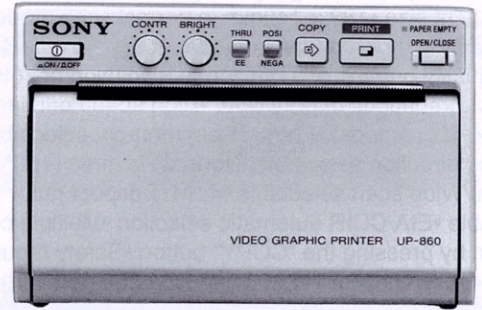
- Thermal video graphic printer with 256 steps of gradation gray level
- Small size and light weight
- A fast printing speed of less than four seconds
- High resolution printing of 896 × 508 dots (in Wide 2 scan mode)
- Wide scanning function (Normal/Wide 1/Wide 2 selectable)
- Multiple copy function
- Maximum 270 prints from one paper roll in POSTFEED ON mode (230 prints in POSTFEED OFF mode)
- Frame/Field memory selectable
- 4:3/1:1 aspect ratio selectable
- Positive/negative printing
- Normal/reverse direction printing
- EIA/CCIR automatic selection

Supplied accessories: AC power cable
BNC cable (1.5m)
Printing paper roll (UPP-110HD)
Head cleaning sheet
Operation manual

Optional accessories: Printing paper (Type I) UPP-110S
High density printing paper (Type II) UPP-110HD
Foot switch FS-20
Remote control unit RM-91

Specifications

Thermal head:	Thin-film thermal head (with built-in drive IC) of 896-dot drive
Gradations:	256 gray levels
Print size:	(EIA) Normal: 90 × 69mm (3 ⁵ / ₈ × 2 ³ / ₄ inches) Wide 1: 95 × 72mm (3 ³ / ₄ × 2 ⁷ / ₈ inches) Wide 2: 100 × 74mm (4 × 3 inches) (CCIR)
(at aspect ratio 4:3)	Normal: 90 × 68mm (3 ⁵ / ₈ × 2 ³ / ₄ inches) Wide 1: 95 × 71mm (3 ³ / ₄ × 2 ⁷ / ₈ inches) Wide 2: 100 × 74mm (4 × 3 inches) (EIA)
Effective pixels:	Normal: 808 dots × 472 lines Wide 1: 848 dots × 490 lines Wide 2: 896 dots × 508 lines (CCIR) Normal: 808 dots × 560 lines Wide 1: 848 dots × 582 lines Wide 2: 896 dots × 608 lines
Printing speed:	Less than four seconds/screen (at aspect ratio 4:3)
Picture memory:	6-bit frame memory (3.36 Mbits)
Input/output:	Video IN (BNC): EIA or CCIR composite video signal 1.0Vp-p, 75Ω/high impedance switchable Video OUT (BNC): Loop through or E to E switchable
Remote:	Remote (for the optional foot switch FS-20 or remote control unit RM-91): Stereo mini jack
Power requirements:	AC 120V, 50/60Hz
Power consumption:	Max. 1.6A
Dimensions:	Approx. 154(W) × 106(H) × 300(D)mm (6 ¹ / ₈ × 4 ¹ / ₄ × 11 ⁷ / ₈ inches)
Weight:	3.6kg (7 lb 15 oz)
Safety regulations:	UL-1950, CSA C 22.2 No.950



3-3 Monochrome video graphic printers

UP-610 (EIA/CCIR)

Monochrome video graphic printer

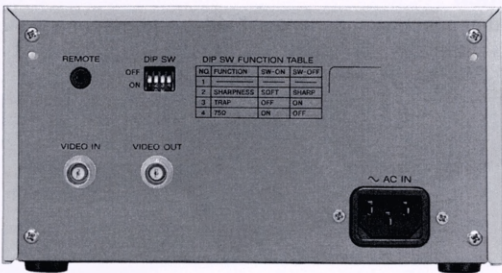
- Specially designed to print video images onto self adhesive labels for temporary ID cards
- Thermal video graphic printer with a 128 gradation grey level
- Brightness and contrast adjustable with front panel controls
- Approx. 5 seconds/picture printing time
- EIA/CCIR automatic selection

- Supplied accessories:
- AC power cable
 - Paper roll UP-B90SE
 - Head cleaning sheet
 - Connecting cable (BNC-BNC, 1.5m)
 - Operation manual
- Optional accessories:
- Paper roll UPP-B90SE (with 120 self adhesive labels)
 - Foot switch FS-20
 - Remote control unit RM-91



Specifications

- Printing method: Direct thermal printing
Thermal head: Thin film thermal head (with built-in drive IC)
768-dot drive
- Picture size: 51 × 86mm (2 1/8 × 3 1/2 inches)
Picture elements: 660 dots × 346 lines (EIA)
660 dots × 416 lines (CCIR)
- Gradations: 128 (black and white)
- Picture memory: One frame memory (600K × 6 bits)
- Printing time: Approx. 5 seconds/picture
- Input terminal: VIDEO IN (BNC): EIA/CCIR composite video signal 1.0Vp-p, 75Ω/high impedance (switchable)
- Output terminal: Loop through (BNC)
- Remote terminal: REMOTE (for the optional foot switch FS-20 or remote control unit RM-91): Stereo mini jack
- Power requirements: AC 120V, 50/60Hz
- Power consumption: Max. 1.5A
- Dimensions: 195(W) × 106.5(H) × 316(D)mm
(7 3/4 × 4 1/4 × 12 1/2 inches)
- Weight: Approx. 4.5kg (9 lb 15 oz)



3-4 Video printer accessories

UPS-7002M

Printer chooser level driver

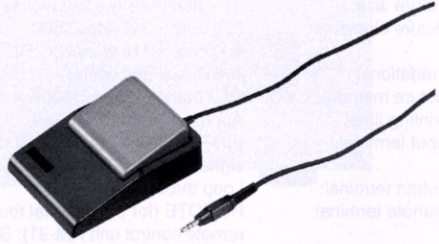
- UP-D7000 printer driver software for Apple Macintosh computers

FS-20

Foot switch

- To record or print an image on a still video recorder or a video printer

Connector: Stereo mini
Cable length: 5m



RM-91

Remote control unit

- To record or print an image on a still video recorder or a video printer

Connector: Stereo mini
Cable length: 5m



UPC-7011

Color printing pack

- Color print pack for UP-D7000/7000

Contents: 100 sheets of print paper
1 roll of ink ribbon for 100 print
Paper size: Letter size (216 × 279mm/8½ × 11 inches)



STILL IMAGE
PRODUCTS

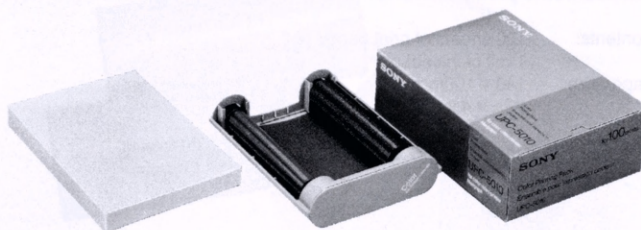
3-4 Video printer accessories

UPC-5010A

Color printing pack

•Color print pack for UP-5000/5100/5150

Contents: 100 sheets of print paper
1 roll of ink ribbon for 100 print
Paper size: A5 size (210 × 148mm/8³/₈ × 5⁷/₈ inches)



UPC-1010

Color printing pack

•Color print pack for UP-1200/1800

Contents: 100 sheets of print paper
1 roll of ink ribbon
Paper size: 140 × 100mm
(5⁵/₈ × 4 inches)



UPC-7021

Black and white printing pack

•Monochrome print pack for UP-D7000/7000

Contents: 100 sheets of print paper
1 roll of ink ribbon for 100 print
Paper size: Letter size (216 × 279mm/8¹/₂ × 11 inches)



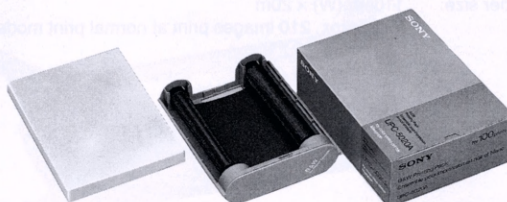
STILL IMAGE
PRODUCTS

UPC-5020A

Black and white printing pack

•Monochrome print pack for UP-5000/5100/5150

Contents: 100 sheets of print paper
1 roll of ink ribbon for 100 print
Paper size: A5 size (210 × 148mm/8³/₈ × 5⁷/₈ inches)



3-4 Video printer accessories

UPC-1020

Black and white printing pack

• Monochrome print pack for UP-1200/1800

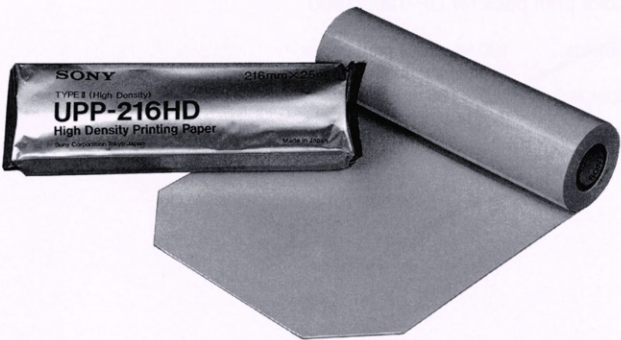
Contents: 100 sheets of print paper
1 roll of ink ribbon
Paper size: 140 × 100mm
(5⁵/₈ × 4 inches)

UPP-216HD

High density printing paper

• Type II high density thermal paper roll for UP-930/910

Paper size: 216mm(W) × 25m
for approx. 130 images print at normal direction mode

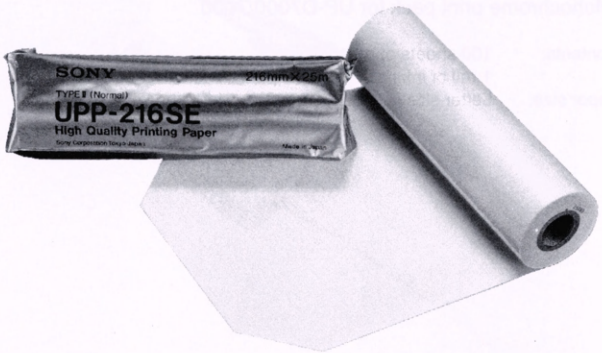


UPP-216SE

Normal density printing paper

• Type II normal density thermal paper roll for UP-930/910

Paper size: 216mm(W) × 25m
for approx. 130 images print at normal direction mode



UPP-110HD

Printing paper

• Type II high density thermal paper for UP-D860/860

Paper size: 110mm(W) × 20m
for approx. 210 images print at normal print mode



3-4 Video printer accessories

UPP-110S

Printing paper

- Type I normal density thermal paper roll for UP-D860/860

Paper size: 110mm(W) × 20m
for approx. 210 images print at normal print mode



UPC-7031

OHP printing pack

- Color OHP transparency print pack for UP-D7000/7000

Contents: 100 transparencies
1 roll of ink ribbon for 100 print
Paper size: Letter size (216 × 279mm/8½ × 11 inches)

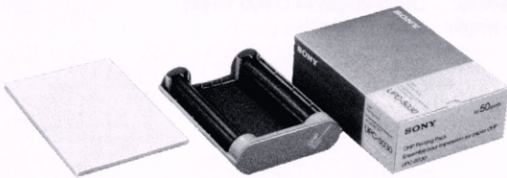


UPC-5030

OHP transparency printing pack

- OHP transparency print pack for UP-5000/5100/5150

Contents: 50 transparencies
1 roll of ink ribbon for 50 print
Paper size: A5 size (210 × 148mm/8⅓ × 5⅞ inches)



STILL IMAGE
PRODUCTS

UPP-B90SE

Paper roll

- 120 self adhesive labels print for UP-610

Paper size: 110mm(W) × 90 sheets



3-4 Video printer accessories

SMF-3005

RGB cable

- For connecting UP-930 to a video product equipped with RGB connectors

Connectors: D-sub 15-pin ↔ BNC (× 4)
Cable length: 2m

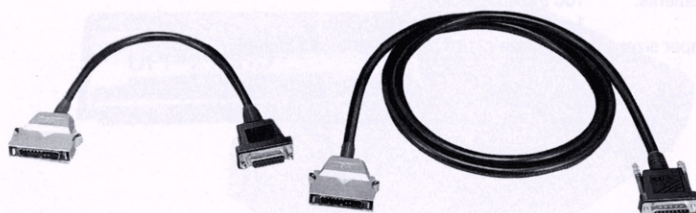


UPZ-7000M

Video interface cable

- Interface cable between UP-7000 and Apple Macintosh series computers

Connectors: DN50-20-pin ↔ D-sub 15-pin
Cable length: 1.5m, 0.3m



UPZ-7000I

Video interface cable

- Interface cable between UP-7000 and IBM PS/2 computers

Connectors: DN50-20-pin ↔ D-sub 15-pin
Cable length: 1.5m, 0.3m



UPZ-7001

Video interface cable

- Interface cable between UP-7000 and video equipment which outputs color high scan signals

Connectors: DN50-20-pin ↔ BNC (×5)
Cable length: 2m

3-4 Video printer accessories

UPZ-7002

Video interface cable

- Interface cable between UP-7000 and video equipment which outputs monochrome high scan signals

Connectors: DN50-20-pin ↔ BNC
Cable length: 5cm

UPZ-7003

Hi-line terminator

- For 75Ω termination •Used when UP-7000 is used without monitoring display

UPZ-930I

Video interface cable

- Interface cable between UP-930 and IBM PS/2 computers

Connectors: D-sub 15-pin ↔ D-sub 15-pin
Cable length: 2m

UPZ-930M

Video interface cable

- Interface cable between UP-930 and Apple Macintosh series computers

Connectors: D-sub 15-pin ↔ D-sub 15-pin
Cable length: 2m

STILL IMAGE
PRODUCTS

4 Color video scanner

UY-T35V

Color video scanner

- High speed scanning of approx. 7 seconds per image (normal color mode, A4 size)
- High quality video images—horizontal resolution of more than 500TV lines, 256 gradations/each color of R, G, B
- No image distortion for whole area of the image using CCD technology
- Multiple outputs of RGB video signal output, Y/C separate output, and composite video output
- Trimming function
- Title superimpose function
- Scroll and pointer functions for presentation
- Various color adjustment functions (color, contrast, brightness, and sharpness)
- External sync in/out connectors for sync lock with other video equipment
- Transportable (compact and light weight)

Supplied accessories: AC power cable
Operation manual

Specifications

General

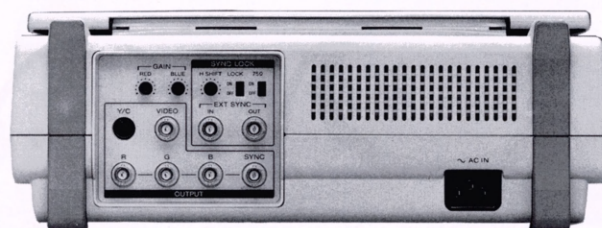
Scanning system: Flat-bed, Linear CCD sensor one pass scanning
Maximum scanning area: 212 × 283mm (8³/₈ × 11³/₄ inches)
Sensor: Linear CCD sensor (8 dots/mm: 1,728 dots)
Light source: Red LED, green LED, blue fluorescent lamp
Gradations: 256 gradations/each color (R, G, B 3-channel)
Scanning time: Approx. 7 seconds (normal color mode, size 8)
Trimming: 12 trimming magnification levels, free positioning
Picture memory: 768(H) × 512(V) × 8 bits × 3 colors for image—
Effective image area: 700(H) × 430(V)
768(H) × 512(V) × 4 bits for superimpose—
Effective image area: 700(H) × 430(V)
2 pointers selectable (8 colors/pointer)
Pointer: 2 pointers selectable (8 colors/pointer)
Scanning mode: NORM/FINE/B&W/TITLE
Color adjustment: COLOR/CONTRAST/BRIGHTNESS/
SHARPNESS/HUE, RED/BLUE GAINS
Diemensions: 328(W) × 121(H) × 507(D)mm
(13 × 4³/₄ × 20 inches)
Weight: Approx. 9kg (19 lb 3 oz)
Power requirements: AC 120V, 50/60Hz, 0.6A
Power consumption: Approx. 45W

Video (at volume center click)

Video format: EIA standard,
NTSC (H: 15.734kHz, V: 59.940Hz, interlaced)
Resolution: 500TV lines
RGB analogue: BNC (×4) (R/G/B/SYNC)
R/G/B: 0.7Vp-p, 75Ω, unbalanced
SYNC: 1.0Vp-p, 75Ω, unbalanced, negative
Y/C separate: Mini DIN 4-pin:
Y: 1.0Vp-p,
C (burst level): 0.29Vp-p
Composite: BNC: 1.0Vp-p, 75Ω, unbalanced,
sync negative

Sync lock

Ext. sync. in: BNC: 1.0 to 4.0Vp-p, 75Ω, unbalanced,
negative
Ext. sync. out: BNC: Loop through



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1-1 Color video cameras

SSC-C370/C374

Single chip CCD color video camera

- Especially designed for surveillance applications
- High density 1/2-inch IT Hyper HAD CCD offers extremely high resolution of 470TV lines and high sensitivity with a minimum illumination of 2.5 lx (F1.2)
- Excellent signal-to-noise ratio of 48dB
- Digital control CCD IRIS eliminates the need to use an automatic iris lens
- Two alternative automatic white balance control modes: AWB (Auto White Balance)/ATW (Auto Tracing White Balance)
- Variable speed electronic shutter
- Accepts C-mount lenses
- Compact and lightweight

Exclusive features for SSC-C370

- External synchronization with VS
- Single cable operation (video/sync/power triple multiplex transmission) for easy installation with the optional YS-W130/W230 Camera Adaptor (Mode A)
- Monitor out function for on-the-spot camera positioning (Mode A)
- 12V DC power supply can also be used (Mode B)

Exclusive features for SSC-C374

- AC line lock for external synchronization

Supplied accessories: 4-pin plug for lens cable

Lens mount cap
Operating instruction manual

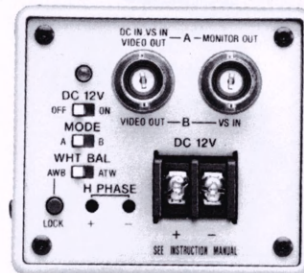
Optional accessories: Camera adaptor YS-W130, YS-W230
(for SSC-C370 only)
Manual iris lens VCL-S03XM (3.6mm, F1.6)
VCL-S06XM (6.0mm, F1.2)
VCL-S12XM (12mm, F1.2)
Auto iris lens VCL-S03XEA (3.6mm, F1.6)
VCL-S06XEA (6.0mm, F1.2)
VCL-S12XEA (12mm, F1.2)
Remote zoom lens VCL-806XR (8 to 48mm, F1.0)
VCL-810XR (8 to 80mm, F1.2)

Specifications

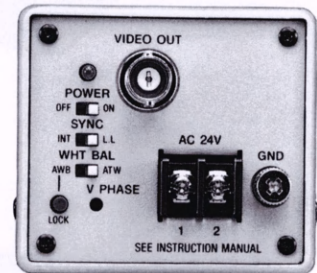
Image device: 1/2-inch Interline Transfer CCD (×1)
Picture elements: 768(H) × 494(V)
Sensing area: 6.3mm × 4.7mm (1/4 × 3/16 inches)
Signal system: NTSC standard
Scanning system: 525 lines, 2:1 interlace
Sync system: SSC-C370: Internal or
External: VS or composite sync
SSC-C374: Internal or AC 24V line lock
Horizontal resolution: 470TV lines
Lens mount: C-mount (Back focus adjustable)
Minimum illumination: 2.5 lx, F1.2 (AGC ON)
Automatic Gain Control: ON/OFF selectable
Electronic shutter: 1/60, 1/100(FL), 1/250, 1/500, 1/1000, 1/2000,
1/4000, 1/10000 (s)
CCD IRIS control: ON/OFF selectable
White balance: ATW/AWB switchable
Phase control: SSC-C370: H-phase control
SSC-C374: V-phase control (6-position)
Signal-to-noise ratio: 48dB (AGC OFF)
Video out: 1.0Vp-p, 75Ω, sync negative
Operating temperature: -10 to 50°C (14 to 122°F)
Storage temperature: -40 to 60°C (-40 to 140°F)
Power requirements: SSC-C370: DC 12V±10% from DC 12V supply
or DC 24V±5V from YS-W130/W230
SSC-C374: AC 24V
Power consumption: SSC-C370: 2.8W at DC 12V
4.0W supplied from YS-W130/W230
SSC-C374: 4.9W at AC 24V
Weight: Approx. 660g (1 lb 7 oz)
Connectors: SSC-C370: DC 12V terminals, LENS (4-pin)
Mode A (Triple multiplexing operation);
DC IN/VS IN/VIDEO OUT (BNC),
MONITOR OUT (BNC)
Mode B (DC 12V operation);
VIDEO OUT (BNC), VS IN (BNC)
SSC-C374: AC 24V terminals, LENS (4-pin),
VIDEO OUT (BNC), GND



Lens is optional

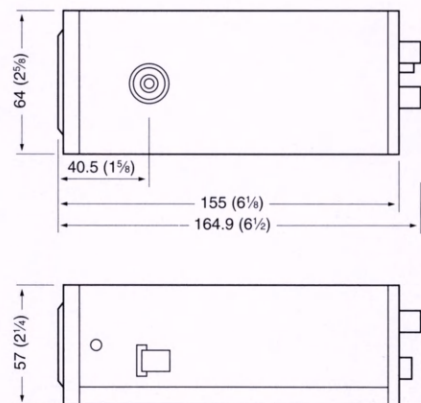


SSC-C370



SSC-C374

Dimensions



Unit: mm (inch)

1-1 Color video cameras

SSC-C350/C354

Single chip CCD color video camera

•Especially designed for surveillance applications •1/2-inch Hyper HAD IT CCD offers extremely high sensitivity with a minimum illumination of 2.5 lx (F1.2) •Excellent signal-to-noise ratio of 46dB •CCD IRIS control eliminates the need to use an automatic iris lens •Two alternative automatic white balance control modes: AWB (Auto White Balance)/ATW (Auto Tracing White Balance) •Variable speed electronic shutter •Accepts C-mount lenses •Compact and lightweight

Exclusive features for SSC-C350

•External synchronization with VS •Single cable operation (video/sync/power triple multiplex transmission) for easy installation with the optional YS-W130/W230 Camera Adaptor (Mode A) •Monitor out function for on-the-spot camera positioning (Mode A) •12V DC power supply can also be used (Mode B)

Exclusive features for SSC-C354

•AC line lock for external synchronization

Supplied accessories: 4-pin plug for lens cable

Lens mount cap

Operating instruction manual

Optional accessories: Camera adaptor YS-W130, YS-W230
(for SSC-C350 only)

Manual iris lens VCL-S03XM (3.6mm, F1.6)
VCL-S06XM (6.0mm, F1.2)
VCL-S12XM (12mm, F1.2)

Auto iris lens VCL-S03XEA (3.6mm, F1.6)
VCL-S06XEA (6.0mm, F1.2)
VCL-S12XEA (12mm, F1.2)

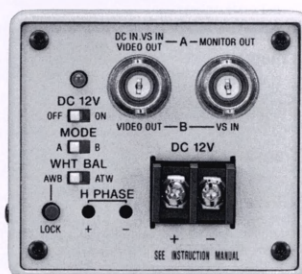
Remote zoom lens VCL-806XR (8 to 48mm, F1.0)
VCL-810XR (8 to 80mm, F1.2)

Specifications

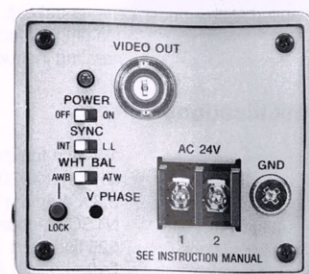
Image device: 1/2-inch Interline Transfer CCD (×1)
Picture elements: 510(H) × 492(V)
Sensing area: 6.3mm × 4.7mm (1/4 × 3/16 inches)
Signal system: NTSC standard
Scanning system: 525 lines, 2:1 interlace
Sync system: SSC-C350: Internal or external with VS
SSC-C354: Internal or AC 24V line lock
Horizontal resolution: 330TV lines
Lens mount: C-mount (Back focus adjustable)
Minimum illumination: 2.5 lx at F1.2 (AGC ON)
Automatic Gain Control: ON/OFF selectable
Electronic shutter: 1/60, 1/100 (FL), 1/250, 1/500, 1/1000, 1/2000,
1/4000, 1/10000 (s)
CCD IRIS control: ON/OFF switchable
White balance: ATW/AWB switchable
Phase control: SSC-C350: H-phase control
SSC-C354: V-phase control (6-position)
Signal-to-noise ratio: 46dB (AGC OFF)
Video out: 1.0Vp-p, 75Ω, sync negative
Operating temperature: -10 to 50°C (14 to 122°F)
Storage temperature: -40 to 60°C (-40 to 140°F)
Power requirements: SSC-C350: DC 12V±10% from DC 12V supply
or DC 24V±5V from YS-W130/W230
SSC-C354: AC 24V
Power consumption: SSC-C350: 2.3W at DC 12V
3.4W supplied from YS-W130/W230
SSC-C354: 3.4W at AC 24V
Weight: Approx. 660g (1 lb 7 oz)
Connectors: SSC-C350: DC 12V terminals, LENS (4-pin)
Mode A; DC IN/VS IN/VIDEO OUT (BNC),
MONITOR OUT (BNC)
Mode B; VIDEO OUT (BNC), VS IN (BNC)
SSC-C354: AC 24V terminals, LENS (4-pin),
GND, VIDEO OUT (BNC)



Lens is optional

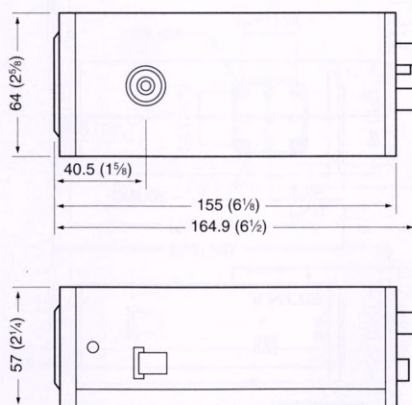


SSC-C350



SSC-C354

Dimensions



Unit: mm (inch)

1-1 Color video cameras

SSC-C154

Single chip CCD color video camera

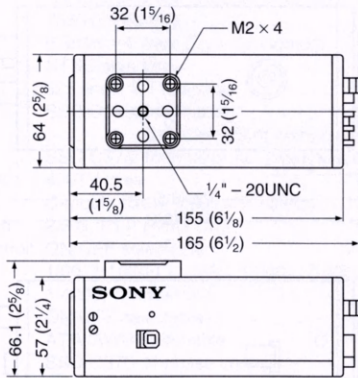
- Especially designed for surveillance applications •1/3-inch Hyper HAD IT CCD offers extremely high sensitivity with a minimum illumination of 1.9 lx (F1.2) •Excellent signal-to-noise ratio of 46dB •CCD IRIS control eliminates the need to use an automatic iris lens •Two alternative automatic white balance control modes: AWB (Auto White Balance)/ATW (Auto Tracing White Balance) •DC servo circuit drives auto iris facility •Accepts both CS and C-mount lenses •External synchronization with AC line lock •AC power operation •Compact and lightweight

Supplied accessories: Lens mount cap
4-pin plug for lens cable
Operating instruction manual

Specifications

Image device:	1/3-inch Interline Transfer CCD (x1)
Picture elements:	510(H) × 492(V)
Sensing area:	3.3 × 4.4mm ($\frac{5}{32} \times \frac{3}{16}$ inches)
Signal system:	NTSC standard
Scanning system:	525 lines, 2:1 interlace
Synchronization:	External with AC line lock
Horizontal resolution:	330TV lines
Lens mount:	C/CS mount adjustable
Minimum illumination:	1.9 lx at F1.2 (AGC ON)
Automatic Gain Control:	Always AGC ON
CCD IRIS:	1/60 to 1/100000 (seconds)
CCD IRIS control:	ON/OFF switchable
White balance:	ATW/AWB switchable
Phase control:	V phase adjustment ($\pm 90^\circ$)
Signal-to-noise ratio:	More than 46dB
Video out:	BNC, 1.0Vp-p, 75Ω, sync negative
Operating temperature:	-10 to 50°C (14 to 122°F)
Storage temperature:	-40 to 60°C (-40 to 140°F)
Power requirements:	AC 24V, 60Hz
Power consumption:	4W
Weight:	700g (1 lb 9 oz)
Connectors:	VIDEO OUT (BNC), LENS (4-pin)

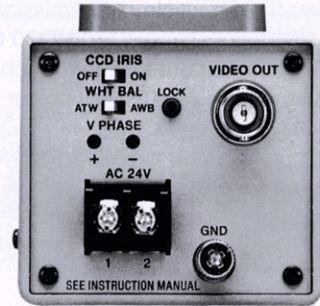
Dimensions



Unit: mm (inch)



Lens is optional



1-2 Monochrome video cameras

SSC-M370/M374

Single chip CCD monochrome video camera

- Especially designed for surveillance applications •High density 1/2-inch Hyper HAD IT CCD offers extremely high resolution of 570TV lines and high sensitivity with a minimum illumination of 0.3 lx (F1.2) •Excellent signal-to-noise ratio of 50dB •Digital control CCD IRIS eliminates the need to use an automatic iris lens •Variable speed electronic shutter
- Accepts C-mount lenses •Compact and lightweight

Exclusive features for SSC-M370

- External synchronization with VS •Single cable operation (video/sync/power triple multiplex transmission) for easy installation with the optional YS-W130/W230 Camera Adaptor (Mode A) •Monitor out function for on-the-spot camera positioning (Mode A) •12V DC power supply can also be used (Mode B)

Exclusive features for SSC-M374

- AC line lock for external synchronization

Supplied accessories: 4-pin plug for lens cable

Lens mount cap

Operating instruction manual

Optional accessories: Camera adaptor YS-W130, YS-W230

(for SSC-M370 only)

Manual iris lens VCL-S03XM (3.6mm, F1.6)

VCL-S06XM (6.0mm, F1.2)

VCL-S12XM (12mm, F1.2)

Auto iris lens VCL-S03XEA (3.6mm, F1.6)

VCL-S06XEA (6.0mm, F1.2)

VCL-S12XEA (12mm, F1.2)

Remote zoom lens VCL-806XR (8 to 48mm, F1.0)

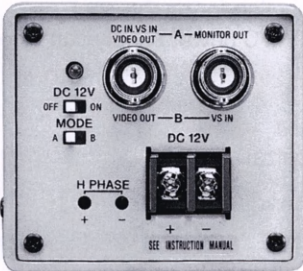
VCL-810XR (8 to 80mm, F1.2)

Specifications

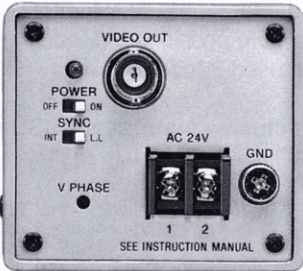
Image device:	1/2-inch Interline Transfer CCD (x1)
Picture elements:	768(H) x 494(V)
Sensing area:	6.3mm x 4.7mm (1/4 x 3/16 inches)
Signal system:	EIA standard
Scanning system:	525 lines, 2:1 interlace
Sync system:	SSC-M370: Internal or external with VS SSC-M374: Internal or AC 24V line lock
Horizontal resolution:	570TV lines
Lens mount:	C-mount (Back focus adjustable)
Minimum illumination:	0.3 lx, F1.2 (AGC ON)
Automatic Gain Control:	ON/OFF selectable
Electronic shutter:	1/60, 1/100 (FL), 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 (s)
CCD IRIS control:	ON/OFF switchable
Phase control:	SSC-M370: H-phase control SSC-M374: V-phase control (6-position)
Signal-to-noise ratio:	50dB (AGC OFF)
Video out:	1.0Vp-p, 75Ω, sync negative
Operating temperature:	-10 to 50°C (14 to 122°F)
Storage temperature:	-40 to 60°C (-40 to 140°F)
Power requirements:	SSC-M370: DC 12V±10% from DC 12V supply or DC 24V±5V from YS-W130/W230 SSC-M374: AC 24V±10%, 60Hz
Power consumption:	SSC-M370: 2.8W at DC 12V 4.0W supplied from YS-W130/W230 SSC-M374: 3.9W at AC 24V
Maximum cable length:	300m using RG-59B/U (3C-2V) 500m using RG-6A/U (5C-2V) 600m using RG-11A/U (7C-2V)
Weight:	Approx. 660g (1 lb 7 oz)
Connectors:	SSC-M370: DC 12V terminals, LENS (4-pin) Mode A; DC IN/VS IN/VIDEO OUT (BNC), MONITOR OUT (BNC) Mode B; VIDEO OUT (BNC), VS IN (BNC) SSC-M374: AC 24V terminals, LENS (4-pin), GND, VIDEO OUT (BNC)



Lens is optional

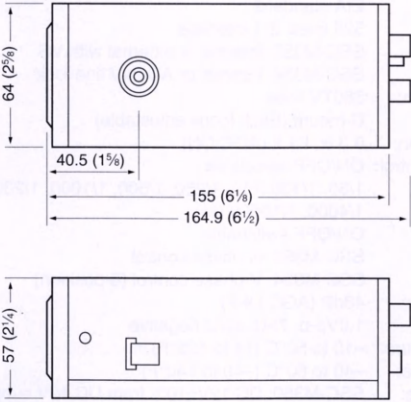


SSC-M370



SSC-M374

Dimensions



Unit: mm (inch)

SURVEILLANCE
PRODUCTS

1-2 Monochrome video cameras

SSC-M350/M354

Single chip CCD monochrome video camera

•Especially designed for surveillance applications •1/2-inch Hyper HAD IT CCD offers extremely high sensitivity with a minimum illumination of 0.3 lx (F1.2) •Excellent signal-to-noise ratio of 48dB •Digital control CCD IRIS eliminates the need to use an automatic iris lens •Variable speed electronic shutter •Accepts C-mount lenses •Compact and lightweight

Exclusive features for SSC-M350

•External synchronization with VS •Single cable operation (video/sync/power triple multiplex transmission) for easy installation with the optional YS-W130/W230 Camera Adaptor (Mode A) •Monitor out function for on-the-spot camera positioning (Mode A) •12V DC power supply can also be used (Mode B)

Exclusive features for SSC-M354

•AC line lock for external synchronization

Supplied accessories: 4-pin plug for lens cable

Lens mount cap

Operating instruction manual

Optional accessories: Camera adaptor YS-W130, YS-W230

(for SSC-M350 only)

Manual iris lens VCL-S03XM (3.6mm, F1.6)

VCL-S06XM (6.0mm, F1.2)

VCL-S12XM (12mm, F1.2)

Auto iris lens VCL-S03XEA (3.6mm, F1.6)

VCL-S06XEA (6.0mm, F1.2)

VCL-S12XEA (12mm, F1.2)

Remote zoom lens VCL-806XR (8 to 48mm, F1.0)

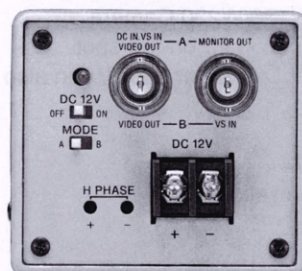
VCL-810XR (8 to 80mm, F1.2)

Specifications

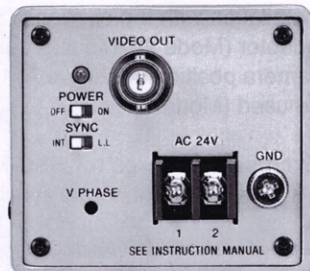
Image device:	1/2-inch Interline Transfer CCD (x1)
Picture elements:	510(H) × 492(V)
Sensing area:	6.3mm × 4.7mm (1/4 × 3/16 inches)
Signal system:	EIA standard
Scanning system:	525 lines, 2:1 interlace
Sync system:	SSC-M350: Internal or external with VS SSC-M354: Internal or AC 24V line lock
Horizontal resolution:	380TV lines
Lens mount:	C-mount (Back focus adjustable)
Minimum illumination:	0.3 lx, F1.2 (AGC ON)
Automatic Gain Control:	ON/OFF selectable
Electronic shutter:	1/60, 1/100 (FL), 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 (s)
CCD IRIS control:	ON/OFF switchable
Phase control:	SSC-M350: H-phase control SSC-M354: V-phase control (6-position)
Signal-to-noise ratio:	48dB (AGC OFF)
Video out:	1.0Vp-p, 75Ω, sync negative
Operating temperature:	-10 to 50°C (14 to 122°F)
Storage temperature:	-40 to 60°C (-40 to 140°F)
Power requirements:	SSC-M350: DC 12V±10% from DC 12V supply or DC 24V±5V from YS-W130/W230 SSC-M354: AC 24V±10%, 60Hz
Power consumption:	SSC-M350: 2.3W at DC 12V 3.4W supplied from YS-W130/W230 SSC-M354: 3.5W at AC 24V
Weight:	Approx. 660g (1 lb 7 oz)
Connectors:	SSC-M350: DC 12V terminals, LENS (4-pin) Mode A; DC IN/VS IN/VIDEO OUT (BNC), MONITOR OUT (BNC) Mode B; VIDEO OUT (BNC), VS IN (BNC) SSC-M354: AC 24V terminals, LENS (4-pin), GND, VIDEO OUT (BNC)



Lens is optional

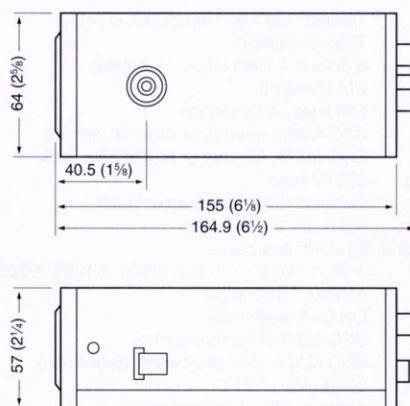


SSC-M350



SSC-M354

Dimensions



Unit: mm (inch)

1-2 Monochrome video cameras

SSC-M254/M256

Single chip CCD monochrome video camera

- Especially designed for surveillance applications •1/2-inch Hyper HAD IT CCD offers extremely high sensitivity with a minimum illumination of 0.3 lx (F1.2) •Excellent signal-to-noise ratio of 48dB •Eight-step CCD IRIS control eliminates the need to use an automatic iris lens for indoor use
- Accepts C or CS-mount lenses •AC Line Lock for external synchronization •Selection of power source: AC 24V for SSC-M254, AC 120V for SSC-M256 •Compact and lightweight

Supplied accessories: 4-pin plug for lens cable

Lens mount cap

C-mount adaptor

Operating instruction manual

Optional accessories: Manual iris lens

VCL-S03XM (3.6mm, F1.6)

VCL-S06XM (6.0mm, F1.2)

VCL-S12XM (12mm, F1.2)

Auto iris lens

VCL-S03XEA (3.6mm, F1.6)

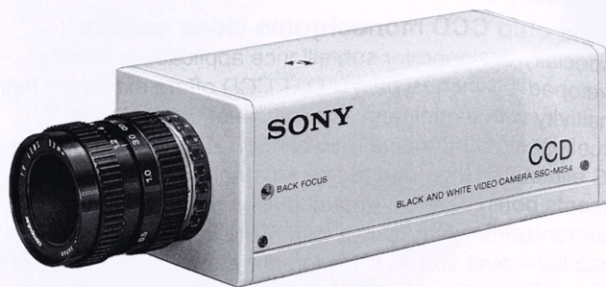
VCL-S06XEA (6.0mm, F1.2)

VCL-S12XEA (12mm, F1.2)

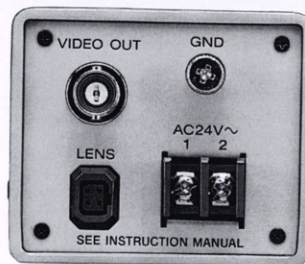
Remote zoom lens

VCL-806XR (8 to 48mm, F1.0)

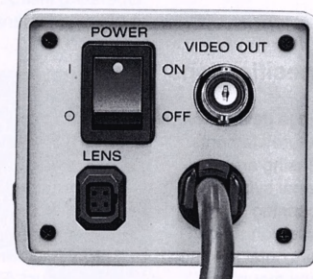
VCL-810XR (8 to 80mm, F1.2)



Lens is optional



SSC-M254

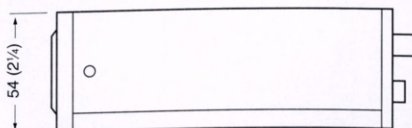
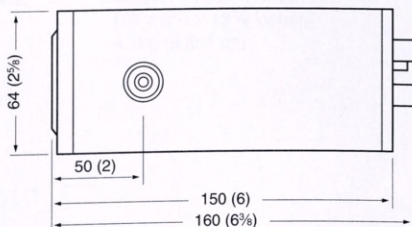


SSC-M256

Specifications

- Image device: 1/2-inch Interline Transfer CCD (x1)
 Picture elements: 510(H) × 492(V)
 Sensing area: 6.3mm × 4.7mm (1/4 × 3/16 inches)
 Signal system: EIA standard
 Scanning system: 525 lines, 2:1 interlace
 Sync system: Internal or AC line lock
 Horizontal resolution: 380TV lines
 Lens mount: C-mount (with the supplied adaptor, Back focus adjustable)/CS-mount (Back focus adjustable)
 Minimum illumination: 0.3 lx, F1.2 (AGC ON)
 Automatic Gain Control: ON
 Electronic shutter: Not applicable
 CCD IRIS control: 8 steps
 Phase control: V-phase control
 (±90° adjustable by inside volume)
 Signal-to-noise ratio: 48dB (AGC OFF)
 Video out: 1.0Vp-p, 75Ω, sync negative
 Operating temperature: -10 to 50°C (14 to 122°F)
 Storage temperature: -40 to 60°C (-40 to 140°F)
 Power requirements: SSC-M254: AC 24V ±10%, 60Hz
 SSC-M256: AC 120V, 60Hz
 Power consumption: 4.5W
 Weight: SSC-M254: Approx. 800g (1 lb 12 oz)
 SSC-M256: Approx. 990g (2 lb 3 oz)
 Connectors: SSC-M254: AC 24V terminals, LENS (4-pin),
 VIDEO OUT (BNC), GND
 SSC-M256: LENS (4-pin), VIDEO OUT (BNC)

Dimensions



Unit: mm (inch)

1-2 Monochrome video cameras

SPT-M104A

Single chip CCD monochrome video camera

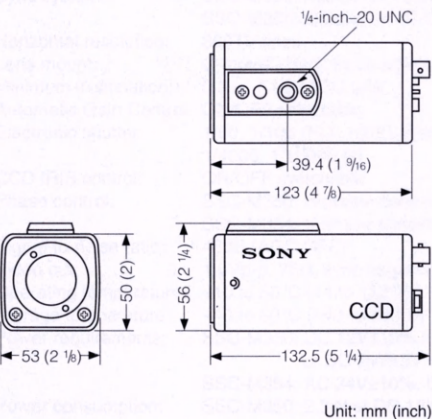
- Especially designed for surveillance applications •Newly developed 1/3-inch Hyper HAD IT CCD offers extremely high sensitivity with a minimum illumination of 0.1 lx (F1.2)
- Excellent signal-to-noise ratio of 45dB •Digital control CCD IRIS eliminates the need to use an automatic iris lens
- Accepts both CS and C-mount lenses •External synchronization with AC line lock •Auto iris lens connection capability •Level and ALC (Automatic Light Control) controls on the side panel

Supplied accessories: Lens mount cap
Operating instruction manual
4-pin plug for lens cable

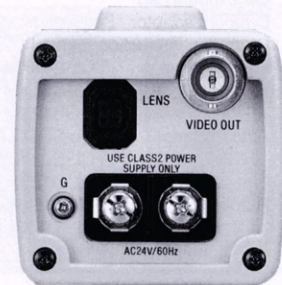
Specifications

Image device:	1/3-inch Interline Transfer CCD
Picture elements:	510(H) × 492(V)
Sensing area:	3.3 × 4.4mm (5/32 × 3/16 inches)
Signal system:	EIA standard
Scanning system:	525 lines, 2:1 interlace
Synchronization:	AC line lock
Horizontal resolution:	380TV lines
Lens mount:	C/CS mount (Back focus adjustable)
Minimum illumination:	0.1 lx at F1.2
Gain Control:	AGC ON
CCD IRIS control:	ON/OFF switchable
Phase control:	V-phase control
Signal-to-noise ratio:	More than 45dB (AGC ON)
Video out:	BNC, 1.0Vp-p, 75Ω, sync negative
Power requirements:	AC 24V, 60Hz
Power consumption:	4.5W
Operating temperature:	-10 to 50°C (14 to 122°F)
Storage temperature:	-40 to 60°C (-40 to 140°F)
Humidity:	20 to 80%
Acceptable lens weight:	1kg (2 lb 3 oz) max.
Weight:	Approx. 300g (10.6 oz)
Auto iris lens:	DC driven type (Non-EE amplifier/Non ALC type)
Connectors:	VIDEO OUT (BNC), LENS (4-pin), AC 24V terminals

Dimensions



Lens is optional



1-3 Camera accessories

YS-W130

AC adaptor for SSC-M370/M350/C370/C350

•Power supply and video/sync signal transmission by connecting to SSC-M370/M350/C370/C350 with a single coaxial cable •Extends the cable length up to 600 meters by using 7C-2V coaxial cable

Connectors: CAMERA IN (BNC)
VIDEO OUT (BNC × 2)
SYNC IN (BNC)
SYNC OUT (BNC)

Power requirements: AC 120V, 50/60Hz
Power consumption: 15W

Dimensions: 140(W) × 85.2(H) × 283.1(D)mm
(5⁵/₈ × 3³/₈ × 11¹/₄ inches)

Weight: 2.1kg (4 lb 10 oz)



YS-W230

AC adaptor for SSC-M370/M350/C370/C350, DXC-107A, AVC-D7

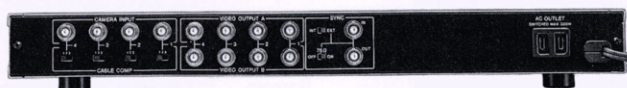
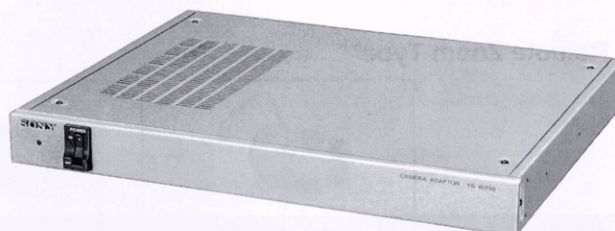
•Power supply and video/sync signal transmission by connecting to the camera with a single coaxial cable •Up to four cameras can be connected •Extends the cable length up to 600 meters by using 7C-2V coaxial cable (SSC series camera) or 300 meters with 5C-2V coaxial cable (DXC-107A/AVC-D7)

Connectors: CAMERA IN 1 to 4 (BNC × 4)
VIDEO OUT A 1 to 4 (BNC × 4)
VIDEO OUT B 1 to 4 (BNC × 4)
SYNC IN/OUT (BNC, loop-through)

Power requirements: AC 120V, 50/60Hz
Power consumption: 65W

Dimensions: 482(W) × 56.5(H) × 351.6(D)mm
(19 × 2¹/₄ × 13⁷/₈ inches)

Weight: 4.1kg (9 lb 1 oz)






SURVEILLANCE PRODUCTS

1-3 Camera accessories

Lenses for 1/2-inch C-mount camera (SSC-C370/C374/C350/C354/M370/M350/M354/M254/M256)



1) Auto-iris Type

			
Models	VCL-S03XEA	VCL-S06XEA	VCL-S12XEA
Mount	C	C	C
Focal length	3.6mm	6.0mm	12mm
Iris control	Auto	Auto	Auto
Maximum aperture ratio	1 : 1.6	1 : 1.2	1 : 1.2
Filter size	—	M43 × 0.75mm	M43 × 0.75mm
Weight	88g (3.1 oz)	128g (4.5 oz)	126g (4.4 oz)
Dimensions	ø45(dia.) × 32.9(L)mm (1 ¹³ / ₁₆ × 1 ⁵ / ₁₆ inches)	ø45.5(dia.) × 48.5(L)mm (1 ¹³ / ₁₆ × 1 ¹⁵ / ₁₆ inches)	ø45.5(dia.) × 48.5(L)mm (1 ¹³ / ₁₆ × 1 ¹⁵ / ₁₆ inches)
Supply voltage	DC 8 to 16V	DC 8 to 16V	DC 8 to 16V

2) Manual-iris Type

			
Models	VCL-S03XM	VCL-S06XM	VCL-S12XM
Mount	C	C	C
Focal length	3.6mm	6.0mm	12mm
Iris control	Manual	Manual	Manual
Maximum aperture ratio	1 : 1.6	1 : 1.2	1 : 1.2
Filter size	M35.5 × 0.5mm	M35.5 × 0.5mm	M35.5 × 0.5mm
Weight	66g (2.3 oz)	74g (2.6 oz)	60g (2.1 oz)
Dimensions	ø38(dia.) × 28.6(L)mm (1 ¹ / ₂ × 1 ³ / ₁₆ inches)	ø38(dia.) × 36.4(L)mm (1 ¹ / ₂ × 1 ⁷ / ₁₆ inches)	ø38(dia.) × 30.8(L)mm (1 ¹ / ₂ × 1 ¹ / ₄ inches)

3) Remote Zoom Type*1

		
Models	VCL-806XR	VCL-810XR
Mount	C	C
Focal length	8 to 48mm	8 to 80mm
Zoom ratio	6 ×	10 ×
Zoom control*2	Remote	Remote
Iris control*2	Remote	Remote
Maximum aperture ratio	1 : 1.0	1 : 1.2
Filter size	M52 × 0.75mm	M62 × 0.75mm
Weight	500g (1 lb 2 oz)	700g (1 lb 9 oz)
Dimensions	ø70(W) × 60(H) × 96.6(D)mm (2 ⁷ / ₈ × 2 ³ / ₈ × 3 ⁷ / ₈ inches)	ø80(W) × 70(H) × 126.6(D)mm (3 ¹ / ₄ × 2 ⁷ / ₈ × 5 inches)
Supply voltage	DC ±6.4V	DC ±6.4V

*1 These models are not available in some areas.

Please contact the Sony office nearest you.

*2 Can be controlled from the CC-8T-II Remote Control Box (by Canon)

2-1 Color monitor

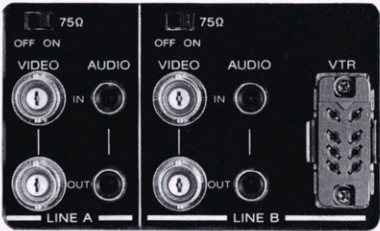
SSM-1380

14-inch color monitor

•NTSC color monitor •Trinitron 14-inch CRT size (13-inch picture size) •Two BNC video inputs and loop-through out, with switchable 75Ω termination •Built-in speaker •Suitable for many monitoring applications

Specifications

Video signal system:	NTSC standard
CRT Type:	Trinitron Tube (14-inch), 13-inch picture measured diagonally, 90 degree deflection (AG pitch 0.6mm)
Resolution:	250TV lines at center
H-linearity:	Less than ±10.0%
V-linearity:	Less than ±8.0%
Line pull range:	Horizontal: ±500Hz Vertical: -8Hz
Input return loss:	More than 35dB at 4MHz
Zooming:	Less than 5%
Front controls:	HUE, COLOR, BRIGHT, PICTURE, VOLUME, LINE A/B select button, POWER ON-OFF
Video inputs:	LINE A, B: BNC connector, composite 1Vp-p ±dB, sync negative, 75Ω and high impedance switchable, unbalanced VTR: 8-pin connector, composite 1Vp-p ±dB, sync negative, 75Ω and high impedance switchable, LINE B parallel
Audio inputs:	LINE A, B: Phono connector, -5dBu high impedance
Video outputs:	VTR: 8-pin connector, -5dBu high impedance, LINE B parallel
Audio outputs:	LINE A, B: BNC connector, loop-through
Color temperature:	LINE A, B: Phono connector, loop-through 9300K
Operating temperature:	0 to 40°C (32 to 104°F)
Power requirements:	AC 120V, 50/60Hz
Power consumption:	86W max.
Dimensions:	366.8(W) × 356.5(H) × 408.5(D)mm (14½ × 14⅞ × 16⅞ inches)
Weight:	11.5kg (25 lb 6 oz)



2-2 Monochrome monitors

SSM-930

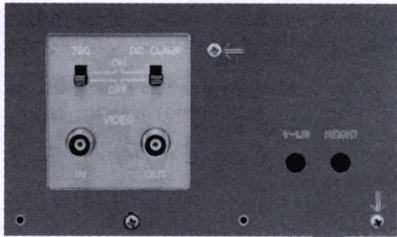
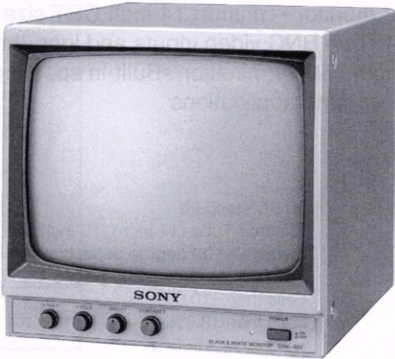
9-inch monochrome monitor

- EIA standard •9-inch CRT size •Excellent picture quality with more than 750TV lines horizontal resolution •Loop-through video input with switchable 75Ω termination •DC clamp switch provides a stable reference for the black level •19-inch EIA standard rack mountable for dual monitor configuration •Front controls: Power, H-hold, V-hold, contrast and brightness •High immunity to external electrical and magnetic interference •Suitable for many monitoring applications

Supplied accessory: Operating instruction manual

Specifications

- Video signal system: EIA standard
- Picture tube: 9-inch B/W measured diagonally, 90° deflection
- Video input: Impedance 75Ω/high switchable
Level 0.5 to 2.0Vp-p, sync negative, BNC-type
- Video output: Impedance more than 10kΩ, loop-through, BNC-type
- Horizontal resolution: More than 750TV lines (at center)
- Power requirements: AC 120V, 50/60Hz
- Power consumption: 27W
- Operating temperature: 0 to 40°C (32 to 104°F)
- Storage temperature: -10 to 65°C (14 to 149°F)
- Dimensions: 220(W) × 219(H) × 246(D)mm
(8¾ × 8⅝ × 9¾ inches)
- Weight: 5.8kg (13 lb)



2-2 Monochrome monitors

SSM-121

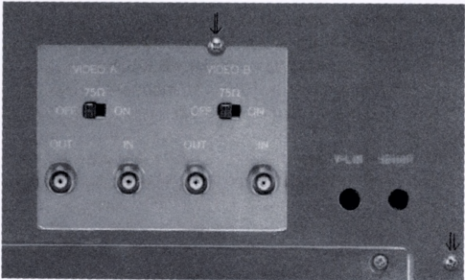
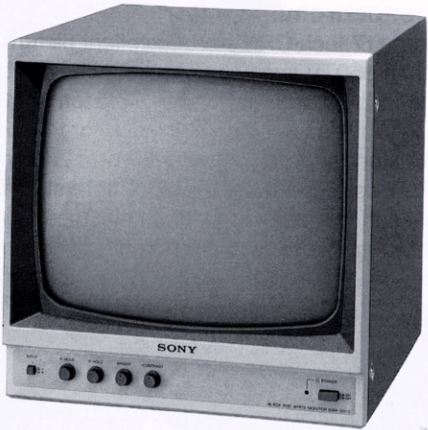
12-inch monochrome monitor

- EIA standard •12-inch CRT size •Excellent picture quality with more than 750TV lines horizontal resolution •Dual loop-through video inputs, with switchable 75Ω termination •Front controls: Power, INPUT select, H-hold, V-hold, contrast and brightness •High immunity to external electrical and magnetic interference •Suitable for many monitoring applications

Supplied accessory: Operating instruction manual

Specifications

- | | |
|------------------------|---|
| Video signal system: | EIA standard |
| Picture tube: | 12-inch B/W measured diagonally, 90° deflection |
| Video input: | Impedance 75Ω/high switchable
Level 0.5 to 2.0Vp-p, sync negative,
BNC-type (x2) |
| Video output: | Impedance more than 10kΩ, loop-through,
BNC-type (x2) |
| Horizontal resolution: | More than 750TV lines (at center) |
| Power requirements: | AC 120V, 50/60Hz |
| Power consumption: | 30W |
| Operating temperature: | −10 to 40°C (14 to 104°F) |
| Storage temperature: | −10 to 65°C (14 to 149°F) |
| Dimensions: | 296(W) × 303(H) × 296(D)mm
(11 ³ / ₄ × 12 × 11 ³ / ₄ inches) |
| Weight: | 9.2kg (20 lb 5 oz) |



2-2 Monochrome monitors

SSM-171

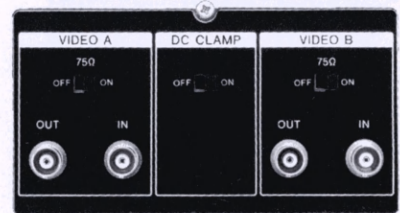
17-inch monochrome monitor

•EIA standard •17-inch CRT size •Excellent picture quality with more than 850TV lines horizontal resolution •Dual loop-through video inputs, with switchable 75Ω termination •DC clamp switch provides a stable reference for the black level •19-inch EIA standard rack mountable •Front controls: Power, INPUT select, H-hold, V-hold, Contrast and Brightness •High immunity to external electrical and magnetic interference •Suitable for many monitoring applications

Supplied accessory: Operating instruction manual
Optional accessory: Rack mount bracket RMM-171

Specifications

Video signal system:	EIA standard
Picture tube:	17-inch B/W measured diagonally, 90° deflection
Video input:	BNC (×2), level 0.5 to 2.0Vp-p, sync negative, 75Ω/high impedance switchable with loop-through output
Horizontal resolution:	More than 850TV lines (at center)
Signal-to-noise ratio:	More than 46dB
Power requirements:	AC 120V, 60Hz
Power consumption:	35W
Operating temperature:	−5 to 40°C (23 to 104°F)
Storage temperature:	−40 to 60°C (−40 to 140°F)
Dimensions:	424(W) × 409(H) × 380(D)mm (16 ³ / ₄ × 16 ¹ / ₈ × 15 inches)
Weight:	17.5kg (38 lb 9 oz)



2-2 Monochrome monitors

FDM-030

2.7-inch monochrome monitor

- Miniature 2.7-inch diagonal flat display monitor, suitable for on-the-spot camera positioning
- Extremely compact and lightweight design for handheld and truly portable use
- Operates on four "AA" batteries
- One Video input via BNC connector and one audio input via a minijack

Supplied accessories: Sony Alkaline batteries (x4)
Earphones
Handstrap
Carrying case

Specifications

Video signal system:	EIA standard
Picture tube:	Flat B/W 2.7-inch measured diagonally
Video input:	BNC connector
Audio input:	Minijack
Power requirements:	DC 6V (four "AA" batteries)
Power consumption:	2.3W
Dimensions:	76(W) × 155(H) × 48(D)mm (3 × 6 ¹ / ₈ × 1 ⁵ / ₁₆ inches)
Weight:	400g (14.2 oz) (incl. batteries)



YS-S100

Intelligent sequential switcher

- Eight video camera inputs and one external input
- Sequential Monitor OUTPUT allows sequential monitoring of up to eight cameras
- Dwell time (displayed time) can be set for each video camera at eight different times: 1, 2, 3, 5, 10, 20, 30, 60s
- Spot Monitor OUTPUT gives manual selection of a specific camera
- Built-in Date/Time/Character Generator for video camera identification
- Eight ALARM INPUTs, each corresponding to a CAMERA INPUT, for automatic display of the picture at the relevant location
- Alarm time can be set in 7 steps: 5, 10, 20, 30 seconds, 1, 2, 5 minutes
- Alarm memory recall provides an on-screen display of up to 108 alarm events including camera number, date and time information
- Cascading up to four YS-S100's via an RS-485 communication port is possible for monitoring pictures from up to 32 cameras
- External control up to 255 YS-S100's from a central computer is possible via RS-485 communication port

Supplied accessories: Rack mount bracket (for 19-inch EIA standard rack)
Operating instruction manual

Specifications

General

Power requirements: AC 120V, 60Hz
Power consumption: 110mA
Operating temperature: 0 to 40°C (32 to 104°F)
Storage temperature: -20 to 60°C (-4 to 140°F)
Dimensions: 424(W) × 51.6(H) × 355(D)mm
(16³/₄ × 2¹/₈ × 14 inches)
Weight: Approx. 4.1kg (9 lb 1 oz)

Input signals

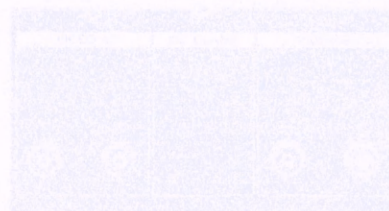
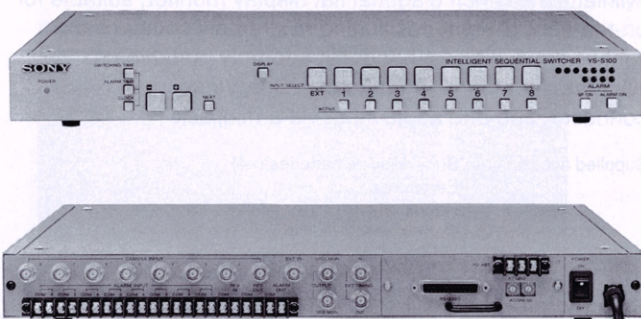
CAMERA INPUT 1 to 8: BNC type, NTSC color, 1.0Vp-p, 75Ω, unbalanced, sync negative
EXT (External) IN: BNC type, NTSC color, 1.0Vp-p, 75Ω, unbalanced, sync negative
ALARM INPUT 1 to 8: M3 screw type, alarm activated when connected to COM (Connection resistance less than 600Ω)
Max. DC voltage on input, 5V
REV (Recovery) IN: M3 screw type, DC 5V, impedance 2.2kΩ
EXT (External) TIMING IN: BNC type, Open circuit voltage DC 5V, impedance 5.6kΩ

Output signals

SPOT MON (Monitor) OUTPUT: BNC type, impedance 75Ω
SEQ MON (Sequential monitor) OUTPUT: BNC type, impedance 75Ω
ALARM OUT: M3 screw type, open collector output, contact rating DC 5V/100mA resistive load
RESET OUT: M3 screw type, DC 4V, impedance 1kΩ
EXT (External) TIMING OUT: BNC connector, open collector output, contact rating DC 5V/100mA resistive load

Others

Interface unit: RS-485 and RS-232C



YS-S6

Six-channel sequential switcher

•Six VIDEO INPUTs with loop-through capability •A SELECT VIDEO OUT allows sequential monitoring of up to six cameras •Dwell time is selectable anywhere from 1 to 30 seconds per camera input •INPUT SELECT button gives manual selection of a specific camera •SKIP function for unused video input channel

Supplied accessories: AC adaptor (AC 120V, 60Hz)
Operating instruction manual

Specifications

General

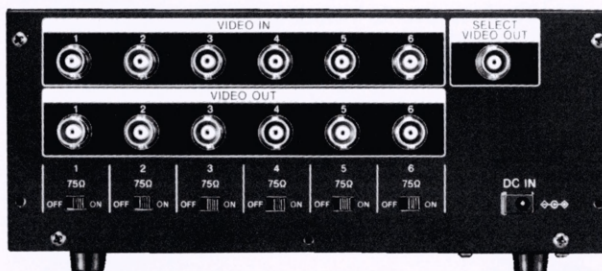
Power requirements: AC 120V (converted DC 9V of AC adaptor)
Power consumption: Approx. 2.0W (including a supplied AC adaptor)
Operating temperature: 0 to 40°C (32 to 104°F)
Storage temperature: -20 to 60°C (-4 to 140°F)
Dimensions: 220(W) × 96(H) × 265.5(D) mm
(8³/₄ × 3⁷/₈ × 10¹/₂ mm)
Weight: Approx. 2.5kg (including a supplied AC adaptor)
(5 lb 8 oz)

Inputs

VIDEO INPUT 1 to 6: BNC type, 1.0Vp-p, 75Ω, unbalanced, sync negative
DC IN: DC jack type, DC 8.5V
(DC 7V to 15V is permissible.)

Outputs

VIDEO OUTPUT 1 to 6: BNC type, loop-through output of VIDEO INPUT, 75Ω termination ON/OFF switchable
SELECT VIDEO OUT: BNC type, 1.0Vp-p, 75Ω, unbalanced, sync negative



YS-F100

Frame switcher

- Up to eight video inputs
- Either asynchronous or synchronous, color or monochrome cameras can be connected
- Switching between connected cameras by a frame (1/30 s) for precise monitoring of multiple surveillance points
- Auto sequential monitoring via MON OUT connector
- CAMERA INPUT select button allows independent playback of specific camera image
- Freeze picture function
- Long time recording with Time Lapse VTR
- Y/C input and output connectors allow interconnecting with S-VHS VTR
- Eight ALARM INPUTs, each corresponding to a CAMERA INPUT
- Programable alarm recording type
- Alarm monitor function automatically provides independent monitoring of channels on which alarms occur
- Alarm hold time (duration of the alarm) can be set up to 30 min. by the second
- Alarm switching time can be set from 0 to 30 sec. for multiple alarm inputs
- Alarm memory recall provides an on-screen display of up to 100 alarm events including camera number, date and time information
- Easy mode setting and checking on-screen display
- Video input loss detection
- Character superimpose function
- Remote control function

Supplied accessories: Rack mounting bracket (for EIA standard rack)
Screw (x8)
AC power cord
Operating instruction manual

Specifications

Video signal system: NTSC standard
2:1 interlace

Video inputs:

Camera input 1 to 8 BNC type, VBS, 1.0Vp-p, 75Ω
RS-170, RS-107A
VTR input BNC type, VBS, 1.0Vp-p, 75Ω
S-VHS Y/C input Y: 1.0Vp-p, 75Ω
C: 0.286Vp-p, 75Ω

Video outputs:

Monitor output BNC type, VBS, 1.0Vp-p, 75Ω
VTR output BNC type, VBS, 1.0Vp-p, 75Ω
S-VHS Y/C output Y: 1.0Vp-p, 75Ω
C: 0.286Vp-p, 75Ω

Remote connector: D-sub 25-pin
CH1-CH8, AUTO, P.B., FREEZE
TTL "L" level or MAKE

Alarm inputs: External alarm 8 inputs
TTL "L" level or MAKE

Alarm output: 1 logic output: TTL "L" level

Alarm hold time: Selectable from 1s to 30min

Auto sequential switching time: Selectable from 0 to 30s

Alarm switching time: Selectable from 0 to 30s

Video memory: 256K × 8bits

Power requirements: AC 120V ±10%, 60Hz

Power consumption: Less than 18W

Operating temperature: 0 to 40°C (32 to 104°F)

Storage temperature: 20 to 60°C (-4 to 140°F)

Dimensions: 430(W) × 44(H) × 350(D)mm
(17 × 1³/₄ × 13⁷/₈ inches)

Weight: Approx. 4.3kg (9 lb 4 oz)



YS-D100

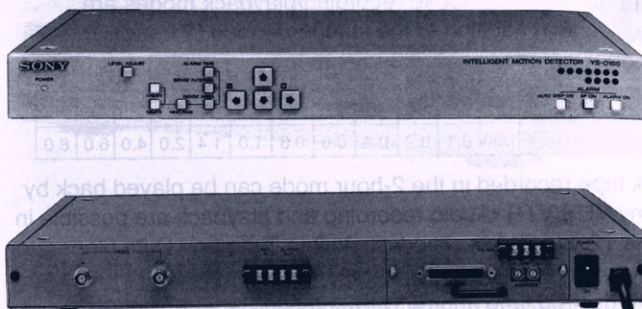
Intelligent motion detector

- User programmable detection zones of up to 288 blocks per page
- Two Pages of user defined detection areas
- On-screen settings for ease of operation
- Displays intruded areas on alarm
- Five modes of detection; page 1, page 2 and 3 combinations using page 1 and page 2 memory
- Adjustable sense levels, alarm duration and sense interval
- Provides audible and visual indications on alarm
- Built-in RS-232C and RS-485 communication ports

Supplied accessories: Rack mounting bracket
Operating instruction manual

Specifications

Video input:	BNC type, 1Vp-p, 75Ω, unbalanced, sync negative NTSC standard
REV (recovery) in:	M3 screw type, DC 2 to 5V, Impedance less than 1kΩ
Video out:	BNC type, 1Vp-p, 75Ω unbalanced, sync negative
Alarm out:	M3 screw type, open collector, 5V DC/100mA, resistive load
Communication interface:	RS-232 & RS-485
Sense interval time:	0, 3, 5, 15, 30s, 1, 2, 4 min (adjustable)
Alarm duration:	5, 10, 20, 30s, 1, 3, 5 min & external (adjustable)
Sensing area:	2 pages, each 288 blocks 24H × 12V
Operating temperature:	0 to 40°C (32 to 104°F)
Storage temperature:	-20 to 60°C (-4 to 140°F)
Relative humidity:	30% to 80%
Power requirements:	AC 120V, 60Hz
Power consumption:	80mA
Dimensions:	424(W) × 44(H) × 355(D)mm (16 3/4 × 1 3/4 × 14 inches)
Weight:	3.8kg (8 lb 6 oz)



5 Time lapse video recorders

SVT-5000

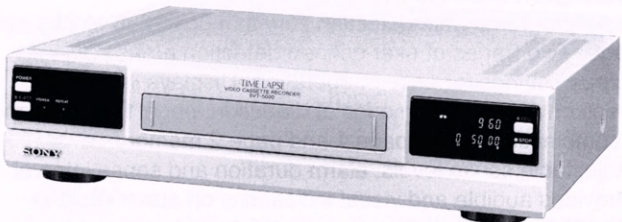
Color time lapse video recorder

•11 different time lapse recording/playback modes are available in addition to the standard mode (2 hours time mode) with a normal 120-minute tape

Time mode(hours)	2	12	24	48	72	96	120	168	240	480	720	960
Interval (seconds)	1/60	0.1	0.2	0.4	0.6	0.8	1.0	1.4	2.0	4.0	6.0	8.0

•A tape recorded in the 2-hour mode can be played back by any VHS VTR •Audio recording and playback are possible in the 12 and 24-hour modes •Built-in Time and Date Generator allows a required scene to be easily searched by presetting the desired time and date •Automatic Repeat Recording capability •Weekly and daily timer recording capability •Automatic Alarm Recording capability •One-shot recording capability •Series recording capability •Recording check function •On screen display permits easy-to-follow operation •Convenient alarm recall and alarm search/scan capability •Field-by-field picture playback capability •Auto head cleaning function •Power-failure protection for at least 15 days •Security lock function for avoiding accidental operation errors •Sub-head selection capability in case of main-head clogging •Basic operational function can be remotely controlled through ø3.5mm mini jack

Supplied accessories: AC power cord
Operating instruction manual



Specifications

General

Power requirements: AC 120V, 60Hz
Power consumption: 18W
Operating temperature: 5 to 40°C (41 to 104°F)
Operating humidity: Less than 80%
Dimensions: 420(W) × 100(H) × 340(D)mm
(16⁵/₈ × 4 × 13¹/₂ inches)
Weight: Approx. 5.8kg (12 lb 13 oz)
Tape speed: 33.35 mm/s (2-hour mode)
Recording/playback time: 2, 12, 24, 48, 72, 96, 120, 168, 240, 480, 720 and 960 hours (with a T-120 tape) (One shot mode is also available.)
Fast forward/rewind time: Approx. 5 minutes (with a T-120 tape)

Video

Recording system: Double-azimuth rotary four-head helical scanning system
Luminance signal: FM recording
Color signal: Low-pass band-pass transformation direct recording
Input: 1.0Vp-p, 75Ω, unbalanced (BNC type)
Output: 1.0Vp-p, 75Ω, unbalanced (BNC type)
Horizontal resolution: Color mode: More than 230TV lines
Black & White mode: More than 350TV lines

Audio

Audio recording mode: 2, 12 and 24-hour mode
Input: 360mV (-7.8dBu), 100kΩ unbalanced (phono jack)
Output: 360mV (-7.8dBu), 600kΩ unbalanced (phono jack)
Microphone input: -60dBu, high impedance (ø3.5mm minijack)

Others

Alarm input: Contact closed with no voltage
Alarm output: +5V, 5.7kΩ
Alarm reset input: Contact closed with no voltage
Tape end output: +5V, 5.7kΩ
Clock output: +5V, 5.7kΩ
One-shot input: Contact closed with no voltage
Series input: Contact closed with no voltage
Series output: +5V, 5.7kΩ
Switch output: +5V, 5.7kΩ
Remote control input: ø3.5mm mini jack

5 Time lapse video recorders

SVT-100

Color time lapse videocassette recorder

•2 different time lapse recording/playback modes are available in addition to the standard mode (2 hours time mode) with a normal 120-minute tape

Time mode (hours)	2	12	24
Interval (seconds)	1/60	0.1	0.2

•A tape recorded in the standard 2H mode can be played back on any VHS VTR deck •Audio recording and playback in the standard 12H and 24H time lapse modes is possible as well as in the standard 2H mode •Built-in time and date generator •Auto repeat recording function, timer recording function and alarm recording mode for further operating convenience •Easy mode setting and checking on screen display •Convenient alarm recall and alarm scan functions •Field-by-field picture playback capability for precise picture search •Built-in rechargeable back-up battery against power failure •Security lock function for avoiding accidental misoperation •Basic operation can be remotely controlled from up to 5m distance

Supplied accessories: AC power cord
Operating instruction manual

Specifications

General

Power requirements: AC 120V $\pm 10\%$, 60Hz
Power consumption: 18W
Operating temperature: 5 to 40°C (41 to 104°F)
Operating humidity: Less than 80%
Dimensions: 420(W) \times 100(H) \times 340(D)mm
(16 $\frac{5}{8}$ \times 4 \times 13 $\frac{1}{2}$ inches)
Weight: Approx. 5.6kg (12 lb 6 oz)
Tape speed: 33.35mm/s (2-hour mode)
Recording/playback time: 2, 12 and 24 hours (with a T-120 tape)
Fast forward/rewind time: Approx. 5min (with a T-120 tape)

Video

Recording system: Rotary dual-head helical scanning system
Luminance signal: FM recording
Color signal: Low-pass band-pass transformation direct recording
Input: BNC, 1.0Vp-p ± 0.2 V, 75 Ω , unbalanced (BNC type)
Output: BNC, 1.0Vp-p ± 0.2 V, 75 Ω , unbalanced (BNC type)
Horizontal resolution: Color mode: More than 230TV lines
Black & White mode: More than 300TV lines

Audio

Audio recording mode: 2, 12 and 24-hour mode
Input: Phono, 360mV (-8 dBu), 100k Ω , unbalanced
Output: Phono, 360mV (-8 dBu ± 4 dB), 600 Ω , unbalanced
Microphone input: $\phi 3.5$ mm mini jack, -60 dBu, high impedance

Others

Alarm input: No voltage contact closure activated
Alarm output: +5V, 5.7k Ω
Tape end output: +5V, 5.7k Ω
Switch output: +5V, 5.7k Ω
Remote control input: $\phi 3.5$ mm mini jack



5 Time lapse video recorders

EVT-820

Color 8mm time lapse video recorder

- The adoption of the worldwide 8mm format standard has allowed the design of the smallest time lapse recorder ever made
- Sony's advanced 8mm VTR technology provides outstanding overall picture quality:
 - More than 380 (B/W)/250 (Color) TV lines of horizontal resolution
 - More than 45dB of signal-to-noise ratio
- Three kinds of still picture are available: 6-bit digital memory allows a choice of noiseless odd-field or even-field, plus a super-clear noiseless frame still picture
- Search function provides noiseless pictures at up to nine times normal speed in forward and up to seven times in reverse
- Digital memory eliminates problems with head-clogging
- Weekly Matrix Timer allows up to three blocks of recording time during a 24-hour period to be specified
- Recording time for a single P6-90 cassette is selectable as shown below:

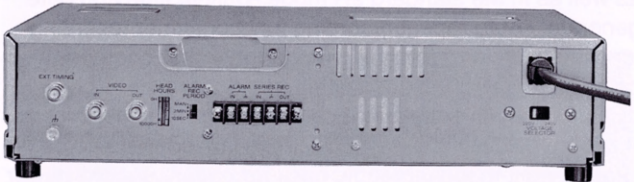
Time mode	12H	24H	48H	96H	192H	760H
Interval (s)	0.25	0.5	1	2	4	16

- Automatic Alarm Recording capability (12H time mode)
- Convenient Alarm Recall capability
- Rapid Alarm Search function
- Automatic Repeat Recording capability
- Built-in time and date generator
- Power-failure protection for 72 hours
- Tapes recorded on the EVT-820 can be played back on any 8mm VTR

- Supplied accessories: Cleaning cassette
Operating instruction manual
- Optional accessories: 19-inch rack mount adapter MB-801
19-inch rack mount adapter with slider MB-801SL
8mm video cassette P6-15/30/60/90MP

Specifications

- Video recording system: Rotary, 2-head, helical-scan FM recording
- Video signal system: NTSC/EIA standard
- Horizontal resolution: More than 380TV lines (B/W),
More than 250TV lines (color)
- Signal to noise ratio: More than 45dB
- Freeze picture: Selectable: frame, odd-field, even-field
- Recording time: 12/24/48/96/192/760 hours with P6-90 tape
- Video IN/OUT: BNC, 1.0Vp-p, 75Ω unbalanced
- Fast forward/rewind time: Approx. 3 min. (with P6-90 tape)
- Power requirements: AC 120V, 60Hz
- Power consumption: 27W
- Dimensions: 355(W) × 86(H) × 340(D)mm
(14 × 3 1/2 × 13 1/2 inches)
- Weight: 6.3kg (13 lb 14 oz)
- Operating temperature: 5 to 40°C (41 to 104°F)



5 Time lapse video recorders

EVT-801

Monochrome 8mm time lapse video recorder

- The adoption of the worldwide 8mm format standard has allowed the design of the smallest time lapse recorder ever made
- Sony's advanced 8mm VTR technology provides outstanding overall picture quality:
 - More than 380TV lines of horizontal resolution
 - More than 45dB of signal-to-noise ratio
- Three kinds of still picture are available: 6-bit digital memory allows a choice of noiseless odd-field or even-field, plus a super-clear noiseless frame still picture
- Search function provides noiseless pictures at up to nine times normal speed in forward and up to seven times in reverse
- Digital memory eliminates problems with head-clogging
- Recording time for a single P6-90 cassette is selectable as shown below:

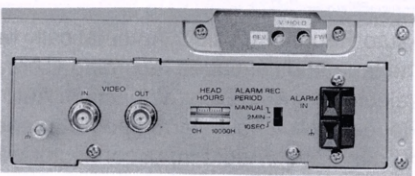
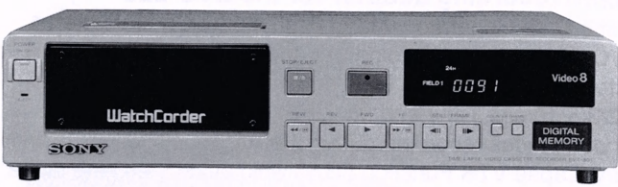
Time mode	12H	24H	48H	96H	192H	384H
Interval (s)	0.25	0.5	1	2	4	8

- Automatic Alarm Recording capability (12H time mode)
- Automatic Repeat Recording capability
- Built-in time and date generator
- Power-failure protection for 72 hours
- Tapes recorded on the EVT-801 can be played back on any 8mm VTR

- Supplied accessories: Cleaning cassette
Operating instruction manual
- Optional accessories: 19-inch rack mount adapter MB-801
19-inch rack mount adapter with slider MB-801SL
8mm video cassette P6-15/30/60/90MP

Specifications

- Video recording system: Rotary, 2-head, helical-scan FM recording
- Video signal system: EIA standard
- Horizontal resolution: More than 380TV lines
- Signal to noise ratio: More than 45dB
- Freeze picture: Selectable: frame, odd-field, even-field
- Recording time: 12/24/48/96/192/384 hours with P6-90 tapes
- Video IN/OUT: BNC, 1.0Vp-p, 75Ω unbalanced
- Fast forward/rewind time: Approx. 3 min. (with P6-90 tape)
- Power requirements: AC 120V, 60Hz
- Power consumption: 27W
- Dimensions: 355(W) × 86(H) × 340(D)mm
(14 × 3 1/2 × 13 1/2 inches)
- Weight: 6.3kg (13 lb 14 oz)
- Operating temperature: 5 to 40°C (41 to 104°F)



SURVEILLANCE
PRODUCTS

5 Time lapse video recorders

PGV-220

Alarm recording adaptor for the EVO-220

- Time Date Generator •Alarm REC mode: Controls the EVO-220 to start recording with the alarm trigger from external device
- Alarm REC duration: 10/ 20/ 30s, 1/2/3/5/10min, Tape end, Manual
- Continuous REC mode for continuous recording during the Program REC
- Quasi Time Lapse VTR Function (TLV) which executes time lapse recording with the mode selection for recording interval among 15/30/60 min, and recording duration among 1/3/5/10 min
- Timer REC mode: Up to 6 events can be programmed
- Auto Repeat Function: Automatically rewinds to the top of the tape and continues recording
- Three modes can be selected for Auto Repeat function: Auto Repeat OFF, Auto Repeat ON without alarm and Auto repeat ON with alarm modes
- Video/Audio Input connector with cable
- Equipped with pigtailed video and audio connectors to be connected with the EVO-220 when the PGV-220 is attached with it
- Slow/Frame Playback
- Adaptor ON/OFF switch to avoid miss operation of the PGV-220

Supplied accessories: Operation manual
Lithium battery: CR2032

Specifications

General

Weight: Approx. 170g (5.9 oz)
Dimensions: 34.5(W) × 64.5(H) × 121.5(D)mm
(1³/₈ × 2⁵/₈ × 4⁷/₈ inches)
Power requirements: DC 6.0V
Power consumption: Approx. 1.2W
Operating temperature: 0 to 40°C (32 to 104°F)
Storage temperature: -20 to 60°C (-4 to 140°F)
Video signal: EIA standard, NTSC color

Connectors

Video IN: Phono connector
1Vp-p, 75Ω, unbalanced, sync negative
Audio IN: Phono connector (×2, stereo L and R)
-7.5dBu (Line)/ -60dBu (MIC) selectable
Input impedance: more than 47kΩ
Alarm IN: Mini jack
Contact Closure: Active short
Special interface for the EVO-220



with EVO-220

6-1 Automotive monochrome video camera

SSC-520AM

Single chip CCD monochrome video camera

•Compact, lightweight and rugged construction •1/2-inch Hyper HAD IT CCD provides extremely high sensitivity with a minimum illumination of 5 lx. •Wide angle view—a full 100 degrees horizontally, 80 degrees vertically •Built-in electret condenser microphone •Only single water-resistant 4-pin Multiple Cable required between the SSC-520AM and the SSM-721AMR to transmit video and audio signals, together with DC power



- Supplied accessories: Rubber cap
Adhesive
Vinyl tape
3mm Allen key
5mm hexagon head bolts (x5)
5mm washers (x5)
Rubber nuts (x5)
Operating instruction manual
- Optional accessories: Camera cable VK-110A/120A (10m/20m)
Water-resistant extension cable VK-305 (5m)
Water-resistant camera cable VK-310A/318A/320A (10/18/20m)

Specifications

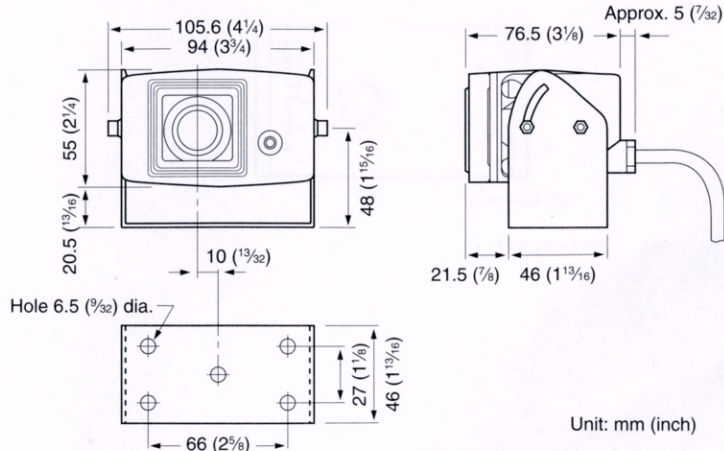
- Image device: 1/2-inch Interline Transfer CCD (x1)
Picture elements: 510(H) x 492(V)
Sensing area: 6.3mm x 4.7mm (1/4 x 3/16 inches)
Lens: f=3.0mm, F1.4 with auto-iris
Signal system: EIA standard
Scanning system: 525 lines, 2:1 interlace
Synchronization: Internal
Horizontal resolution: 380TV lines
Minimum illumination: 5 lx
Signal-to-noise ratio: More than 45dB (AGC ON)
Video/audio output: 4-pin Multi-connector



- ① DC input
- ② Video output: 1.0Vp-p, 75Ω, sync negative
- ③ Ground
- ④ Audio output: -5dBu (436mVrms), less than 10kΩ

- Power requirements: DC 12V
Power consumption: 1.6W (at DC12V)
Operating temperatures: -20 to 70°C (-4 to 158°F)
Storage temperatures: -30 to 85°C (-22 to 185°F)
Weight: 650g (1 lb 7 oz)

Dimensions



6-2 Automotive monochrome video monitor

SSM-721AMR

7-inch monochrome monitor

- Offers bright, clear and high-contrast pictures
- Compact, lightweight and rugged construction
- Built-in speaker
- Day/Night switch adjusts picture brightness for normal or low-light conditions
- Automatic back-up operation
- Only a single water-resistant 4-pin Multiple Cable required between the SSC-520AM and the SSM-721AMR to transmit video and audio signals, together with DC power
- Up to two cameras can be connected

- Supplied accessories: Mounting bracket
Screw (x4)
Bolt (x4)
Washer (x12)
Spring washer (x8)
Nut (x4)
Power supply cable
Bracket holder
Operating instruction manual
- Optional accessory: Monitor hood WU-700AM

Specifications

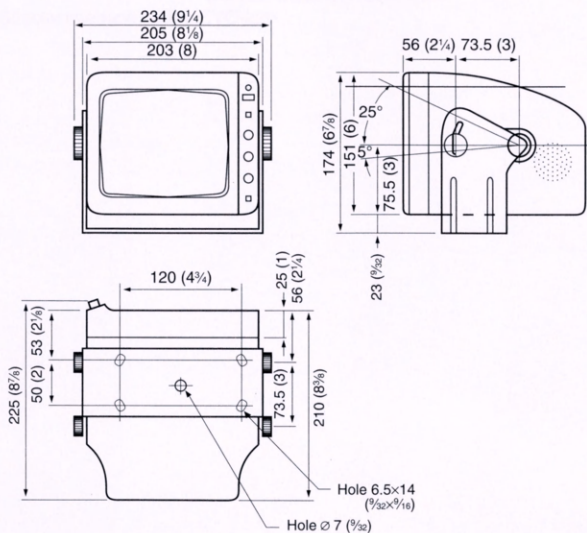
- Video signal system: EIA standard
Picture tube: 7-inch B/W measured diagonally 90 degree deflection
Speaker: ø50mm (2-inch) Impedance 8Ω, 0.5W output (max.)
Video/audio output: 4-pin Multi-connector (x 2)



- ① 12V, 0.2A DC output
- ② Video input: 1.0Vp-p, 75Ω, sync negative
- ③ Ground
- ④ Audio input: -5dBu (436mVrms) more than 30kΩ

- Output: External speaker jack (mini jack) impedance 8Ω
- Power requirements: DC 12V or 24V
- Power consumption: 23W (max)
- Operating temperature: -15 to 60°C (5 to 140°F)
- Storage temperature: -25 to 80°C (-13 to 185°F)
- Weight: Approx. 3.2kg (7 lb)

Dimensions



Unit: mm (inch)



7-1 Watchcam video camera

HVM-352

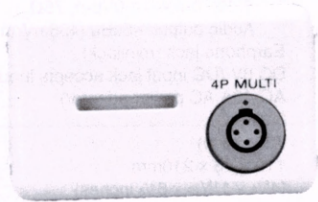
Single CCD B/W Video Camera

•The easy-to-use WatchCam series video camera especially designed for surveillance applications •1/2-inch IT Hyper HAD CCD adoption •Built-in 11mm F1.8 auto lens with a picture angle of 35 degrees (measured diagonally) •AGC (Automatic Gain Control) is standard •Built-in mini bayonet mount for wide-angle and pin-hole lens adaptors •Compact and lightweight design for versatile applications •Built-in electret condenser microphone •4-pin video/audio/power/ground multi-connector •Optional HVA-435 Camera Adaptor converts the 4-pin multi-connector into BNC connector, phono connector and two DC connections

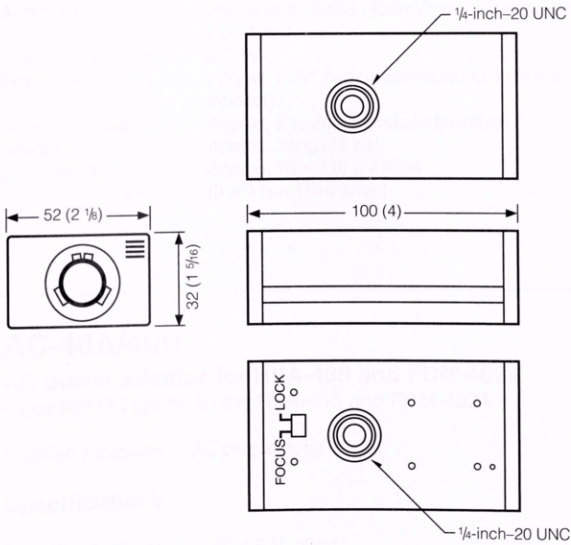
Supplied accessory: Operating instruction manual

Specifications

Image device:	1/2-inch Interline Transfer CCD (x1)
Picture elements:	510(H) × 492(V)
Sensing area:	6.4mm × 4.8mm
Lens:	f=11mm, F1.8, auto-iris with special mini bayonet mount, detachable
Signal system:	EIA standard
Scanning system:	525 lines, 2:1 interlace
Synchronization:	Internal
Horizontal resolution:	380TV lines
Minimum illumination:	0.7 lx at F1.8
Gain Control:	AGC
Video/audio output:	4-pin multi-connector
Power requirements:	DC 6 to 12V
Power consumption:	0.23A (1.2 to 2.4W)
Operating temperature:	0 to 50°C (32 to 122°F)
Weight:	220g (7.8 oz)



Dimensions



Unit: mm (inch)

7-2 Watchcam video monitor

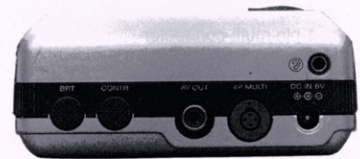
FDM-402A

4-inch flat display monitor

•Miniature 4-inch flat-screen monitor for use with the HVM-352 WatchCam camera •Compact body for portable or desktop use •Unique flat-display design for high space efficiency •4-pin cable camera connection for power, audio, video and ground •A/V unconnector for output for VCR recording or multiple monitor applications •Built-in 1.5-inch speaker •Quick BNC interface with optional VK-30D cable

Specifications

Video signal system:	EIA standard
Picture tube:	Flat B/W 4-inch measured diagonally
Speaker:	1.5-inch
Audio output:	0.05W (7.2Ω)
inputs:	4-pin Multi-connector DC IN 6V jack
Outputs:	AV OUT jack (AV unconnector) Video output: 1.0Vp-p, 75Ω Audio output: -5dBu (436mVrms), more than 30kΩ Earphone jack (minijack)
Power requirements:	DC 6V (DC input jack accepts input from the optional AC-40A AC power adaptor)
Power consumption:	3.3W
Weight :	720g (2 lb)
Dimensions:	110 × 46 × 210mm (4 ³ / ₈ × 1 ¹³ / ₁₆ × 8 ³ / ₈ inches)



7-3 Watchcam system accessories

HVA-435

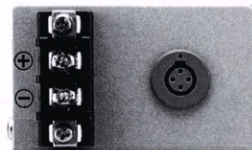
Camera adaptor

•Converts the 4-pin multi-connector into BNC connector, phono connector and DC connections (Standard jack/Twin terminals)

Supplied accessory: Operating instruction manual

Specifications

Camera input: 4-pin Multi-connector
DC in/Video out/Ground/Audio out
Video output: BNC connector, 1.0Vp-p, 75Ω, sync negative
Audio output: Phono connector
Max. output -5dBu (436mVrms)
Power input: Standard jack: DC 6 to 12V
Twin terminals: DC 6 to 12V
Weight: 85g (3 oz)
Dimensions: 53 × 33 × 70mm
(2¹/₈ × 1⁵/₁₆ × 2⁷/₈ inches)
(including connectors and DC terminals)



ECS-402

4-channel camera switcher

•Auto/manual sequential switcher for up to four cameras •Adjustable dwell time of 2 to 20 seconds for each camera •LED channel indicator •Audible alarm •4-pin output for monitor •AV unconnector out for connections to a VCR

Supplied accessory: AC power Adaptor

Specifications

Camera inputs: 4-pin Multi-connector × 4
Monitor output: 4-pin Multi-connector
Video output: Phono jack 1.0Vp-p, 75Ω, sync negative
Audio output: Phono jack -5dBu (436mVrms), impedance more than 10kΩ
Power requirements: DC 6V
Power consumption: Approx. 8.2W (when connected to 4 cameras and a monitor)
Auto scan speed: Approx. 2 to 20 seconds (adjustable)
Weight: Approx. 340g (12 oz)
Dimensions: Approx. 75 × 210 × 47mm
(3 × 3³/₈ × 1⁷/₈ inches)



AC-40A/40U

AC power adaptor for HVA-435 and FDM-402A

•Supplies DC power to the HVA-435 and FDM-402A

Supplied accessory: AC plug adaptor

Specifications

Rated input voltage: AC 120V, 60Hz
Rated output voltage: DC 6V
Rated output current: 40A: 700mA
40U: 900mA
Power consumption: 11W
Weight: 690g (1 lb 8 oz)
Dimensions: 66 × 59 × 117mm
(2⁵/₈ × 2³/₈ × 4⁵/₈ inches)



7-3 Watchcam system accessories

VK-110

Extension cable (10m)

- For extending cable runs in WatchCam camera and monitor systems
- 4-pin multi (female) ↔ 4-pin (male)



VK-110A/120A

Connecting cable (10/20m)

- For connecting WatchCam camera and monitor systems
- 4-pin Multi(male) ↔ 4-pin Multi (male)



VK-220/5

Water resistant extension cable (20/5m)

- Used with the WPC-140 Water Resistant Camera Case
- 4-pin Multi (female) ↔ 4-pin Multi (male)



VK-30C

Adaptor cable (30m)

- 4-pin Multi (female) ↔ BNC (male)



7-3 Watchcam system accessories

VK-30D

Adaptor cable (30m)

- 4-pin Multi (male) ↔ 4-pin Multi (female)



WPC-140

Water-resistant camera case

- Encloses the HVM-352 for water resistance
- Can be used under water to a depth of 40m with the VK-220 Water resistant extension cable



VCL-06PH

Pin-hole lens

- Focal length: $f=5.95\text{mm}$
F No.: F1.8 (when attached to the camera)
Picture angle: Approx. 56° (horizontal)
Approx. 43° (vertical)
Lens structure: 7 groups, 9 elements
Mount: Special bayonet mount
Weight: 71g (2.5 oz)
Dimensions: $\phi 30 \times 78\text{mm}$
($1\frac{3}{16} \times 3\frac{1}{8}$ inches)
(incl. projecting parts)



SURVEILLANCE
PRODUCTS

VCL-04HS

Wide angle supplementary lens

- Designed to obtain a wide-angle of view (approx. 110°)

- Focal length: $f=3.6\text{mm}$
F No.: F1.85 (when attached to the camera)
Picture angle: Approx. 110° (diagonally, when attached to the camera)
Lens structure: 4 groups, 5 elements
Mount: Special bayonet mount
Weight: 43g (1.4 oz)
Dimensions: $\phi 31 \times 23.6\text{mm}$
($1\frac{1}{4} \times 1\frac{5}{16}$ inches)
(incl. projecting parts)



7-3 Watchcam system accessories

VCL-06HS

Wide angle supplementary lens

- Designed to obtain a wide-angle of view (Approx. 70°)

Focal length: $f=5.5\text{mm}$
F No.: F1.84 (when attached to the camera)
Picture angle: Approx. 70° (diagonally, when attached to the camera)
Lens structure: 3 groups, 3 elements
Mount: Special bayonet mount

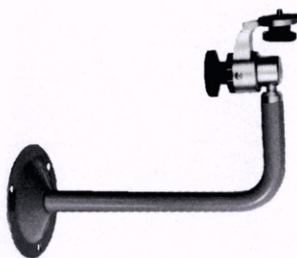


T-301/305/307

Mount bracket

- T-301 - Suitable for mounting housed or unhoused cameras, T-305/307 - Only accept unhoused cameras for installation

Maximum load: 10kg
Length: T-301: 260mm + 150mm
T-305: Min.275mm/Max.405mm
T-307: 160mm
Weight: T-301/305: 0.7kg
T-307: 0.6kg



T-301



T-305



T-307

SECTION 9 VIDEOCONFERENCING SYSTEM

- 1. Videoconferencing system
 - PCS-2000A236
- 2. Videoconferencing system accessories237

VIDEOCONFERENCING
SYSTEM

1 Videoconferencing system

PCS-2000A

Rollabout package

- Designed for small-group meeting (2 to 6 persons per location)
- Complies with the CCITT H.261 standard for Video Coding, and the G.722/711/728 for Audio Coding
- ISDN BRI or switched or dedicated digital networks (for 56 to 384kbps) can be used for communication interface
- Wireless remote commander and on-screen menu icons assure easy operation
- High-resolution 1/3-inch CCD camera provides excellent picture reproduction and features an adjustable pan/tilt head for flexible remote control
- Super Trinitron 27-inch color TV monitor provides clear and crisp images
- Rollabout processor combines a CCITT standard video/audio CODEC, system controller, communication network interface and echo canceller all into one unit
- High-resolution monochrome documents and full-color still video pictures can be transmitted and displayed with the optional PCS-G200 Graphic Board
- The optional PCS-T200 Drawing Tablet for pointing or drawing on a document or still video
- Automatic Lip Sync on/off function
- Automatic dialing function

Basic system configuration

- PCS-2000A Rollabout Package - Camera unit, Rollabout processor, Audio unit, Remote commander
- PCS-F200 Cabinet
- Super Trinitron 27-inch color TV monitor

Supplied accessories: S-video cable (1m)

- Control-S cable (1m)
- LED block (for Control-S, Japanese model only)
- ISDN cable (3m, Japanese model only)
- V.35 cable (USA model only)
- AC power cord (for Rollabout processor, 2.5m)
- AC adaptor (for Audio unit)
- Power cord (for Audio unit, 2.5m)
- Operation manual

Optional accessories:

- Audio unit PCS-A210*
- Document scanner PCS-D200 (Not available in some areas)
- Graphic board PCS-G200
- Remote commander PCS-R200*
- Drawing tablet PCS-T200
- Audio unit cable PCS-K10
- Printer cable PCS-K20
- V.35 cable PCS-K30
- RS-449 cable PCS-K40
- S-video cable PCS-K60

* For additional use only

Specifications

General

- Power requirements: AC100/120V, 50/60Hz
- Power consumption: 460W (PCS-2000A + KV-27XBR95S)
- Operating temperature: 5 to 35°C (41 to 95°F)
- Storage temperature: -20 to 60°C (-4 to 140°F)
- Dimensions: 779(W) × 1350(H) × 721(D)mm (30³/₄ × 53¹/₄ × 28¹/₂ inches)

Weight:

120kg (264 lb 9 oz) (incl. monitor)

Motion video

- Operating bandwidth: 64k(56k) to 384kbps
- Coding: H.261 (CCITT standard)
- Picture elements: CIF: 352 pixels × 288 lines
QCIF: 176 pixels × 144 lines

- Frame rate: Max. 15 frames/s
- Video signal system: NTSC standard

Audio

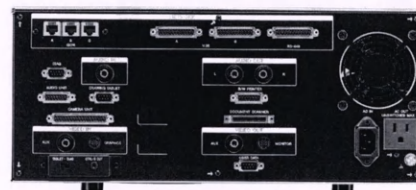
- Bandwidth and coding: G.722: 7kHz, G.711/728: 3.4kHz
- Wireless system: Infrared 2 way (microphone and speaker), FM modulation, ±30° directional range (horizontal and vertical), max 3m between camera and audio unit

Camera

- Image device: 1/3-inch CCD
- Picture elements: 768 pixels × 494 lines
- Focal length: 3.7mm to 37mm
- Focus: Auto/manual switchable
- Iris: Auto
- Zoom ratio: 10 ×
- Output signal: S-video
- Pan control: ±15°, motor-driven



Rollabout processor rear panel



Tilt control:

+5°, -10°, motor-driven

Resolution:

More than 400TV lines

Far-end control:

Zoom (in/out), Focus (auto/manual), Pan (right/left), Tilt (up/down)

Graphics

Resolution:

704 pixels × 480 lines

Input signal:

S-video in full color

Compression method:

JPEG

Transmitting time:

Approx. 2s at 384kbps (256kbps for graphics)
Approx. 8s at 128kbps (64kbps for graphics)

Storage capacity:

Average 9 pages in total for both document and graphics

Document

Resolution:

Processing: 200dpi (8dots/mm)
Display on monitor: 704 pixel × 480 lines

Input signal:

SCSI interfaced to Document Scanner (PCS-D200)

Output signal:

Centronics interfaced to Laser-beam printer
Resolution: 200dpi (8dots/mm)
Printing time: approx. 1min/A4

Display scanning:

15.734kHz, black and white with 16 grey scale

Compression method:

MMR (Modified Modified READ)

Transmitting time:

Approx. 1s at 384kbps (256kbps for document)
Approx. 4s at 128kbps (64kbps for document)

Scanning time:

Approx. 8s at A4/letter paper (PCS-D200)

Manipulations:

Rotation: 90° step
Size: ×1, ×2, ×4
Scroll: Vertical up and down, horizontal right and left

Picture in picture

Sub screen size:

1/9

Position:

One of four corners

Pointing and drawing

Input device:

RS-232C interfaced drawing tablet (PCS-T200)

Pointer:

Finger mark

Color:

White/Red/Green for graphics, Black/White for document

Transmission

Multiplexing:

Video, audio, data

Frame Format:

CCITT H.221

Interface & rate:

ISDN: 128k to 384kbps in 64 kbps increments (BRI × 3)
V.35 with RS-366: 384kbps
Dual V.35 with RS-366: 56kbps × 2, 64kbps × 2
RS-449: 384kbps

User data port

RS-232C:

1200/4800/9600bps DCE (×1)

Echo cancellation

Audio bandwidth:

100 to 7kHz

Remote commander

Signal format:

Infrared SIRCS

Key:

Track-ball type joystick, Power on, Mic mute

Power:

LR6/AM3(N) Alkaline battery (×2)

2 Videoconferencing system accessories

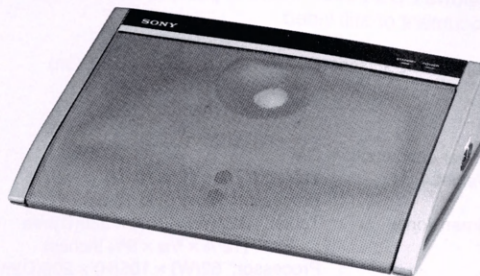
PCS-A210

Audio unit

- Additional audio unit for the PCS-2000A
- Covers a total of five to six attendants in a conference

Supplied accessories: AC adaptor
AC power cord (2m)
Joint cable (mini DIN 8-pin ↔
mini DIN 8-pin, 4m)
Operation manual

Power consumption: 22W
Weight: 1.3kg (2 lb 14 oz)
Dimensions: 276(W) × 83(H) × 185(D)mm
(10⁷/₈ × 3³/₈ × 7³/₈ inches)



PCS-D200

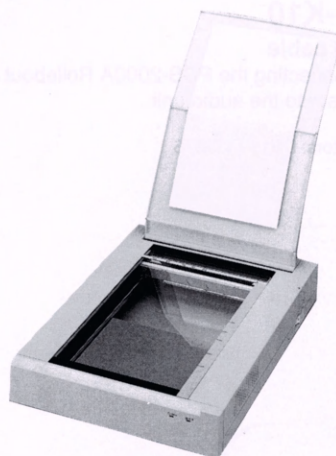
Document scanner

- Document scanner for the PCS-2000A
- A maximum digitizing resolution of 200 dots per inch •A4 or letter sized documents can be scanned

Supplied accessories: SCSI cable (SCSI 50-pin ↔
SCSI 50-pin, 3m)
SCSI terminator
AC power cord (2m)
Operation manual

Power consumption: 70W (45W in standby mode)
Weight: 13kg (28 lb 11 oz)
Dimensions: 388(W) × 110(H) × 537(D)mm
(15³/₈ × 4³/₈ × 21¹/₄ inches)

* This product is not available in some areas.

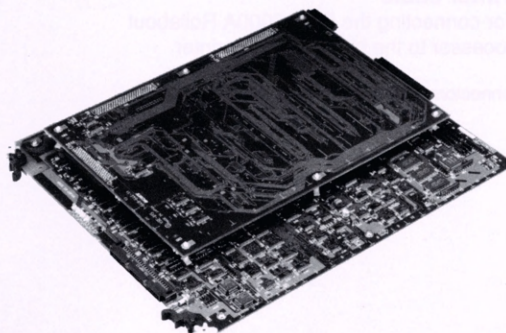


PCS-G200

Graphics board

- Installed in the PCS-2000A Rollabout processor for clear document and still-video transmission

Weight: 1kg (2 lb 3 oz)
Dimensions: 300(W) × 40(H) × 350(D)mm
(11⁷/₈ × 1⁵/₈ × 13⁷/₈ inches)



VIDEOCONFERENCING
SYSTEM

PCS-R200

Remote commander

- Additional remote commander for the PCS-2000A •Manipulation of just a trackball and two keys (Power and Mic Mute) controls the entire system

Weight: 0.13kg (5 oz)
Dimensions: 42(W) × 27(H) × 185(D)mm
(1¹¹/₁₆ × 1¹/₈ × 7³/₈ inches)



2 Videoconferencing system accessories

PCS-T200

Drawing tablet

- Allows PCS-2000A users to point or draw on the document or still video

Supplied accessories: Tablet cable (DB9 ↔ DB9, 2m)
AC power cord (2m)
Operation manual

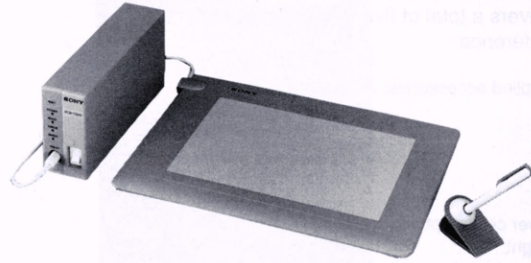
Power consumption: 2W

Weight: Tablet: 0.75kg (1 lb 10 oz)

Processor: 1.2kg (2 lb 10 oz)

Dimensions: Tablet: 327(W) × 7(H) × 238(D)mm
(12⁷/₈ × 9³/₃₂ × 9³/₈ inches)

Processor: 52(W) × 105(H) × 209(D)mm
(2¹/₈ × 4¹/₄ × 8¹/₄ inches)



PCS-K10

Audio cable

- For connecting the PCS-2000A Rollabout processor to the audio unit

Connectors: DB15 ↔ DB15



PCS-K20

Printer cable

- For connecting the PCS-2000A Rollabout processor to the black & white printer

Connectors: DB15 ↔ Centronics 36-pin

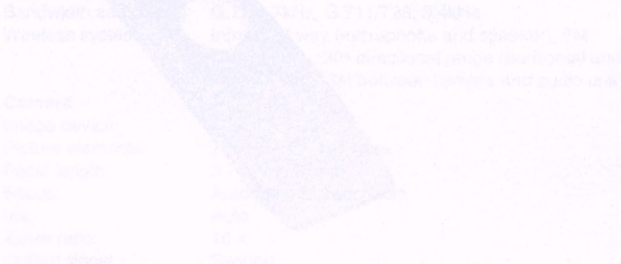


PCS-K30

V.35 cable

- For connecting the PCS-2000A Rollabout processor to the SW56/64/384k DSU

Connectors: DB25 ↔ DB25/34P



2 Videoconferencing system accessories

PCS-K40

RS-449 cable

•For connecting the PCS-2000A Rollabout processor to the Ho NCU TDM

Connectors: DB25 ↔ DB37

PCS-K60

S-video cable

•For connecting the PCS-2000A Rollabout processor to the VID-P11 Video Presentation Stand

Connectors: Mini DIN 4-pin ↔ Mini DIN 4-pin

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OTHER VIDEO
EQUIPMENT AND
ACCESSORIES

MPU-F100A

Frame memory unit

- Accepts asynchronous video signals, locks them with the house sync and outputs synchronous video signals
- Time base error corrections to eliminate skew errors and jitter
- SC (Sub Carrier) and H (Horizontal sync) phase control
- Multiple Inputs/Outputs; composite video, component video (RGB or Y/R-Y/B-Y selectable) and Y/C (S-video) separate video signals
- Simple picture effects functions; MOSAIC, POSTERIZATION and MULTI-PICTURE (3 × 3)
- External genlock capability for composite video or black burst signal
- Synchronization with the timing of the camera signal output of Sony DXC-930 3-CCD color video camera in a low speed shutter mode (shutter speed: 1 to 255 frames in Field Mode, 2 to 256 frames in Frame Mode), suited for image processing or analysis applications
- Video signal control; color level, video level and setup level of the composite and Y/C separate video signals
- Three levels of noise reduction for still pictures
- RS-232C interface for external computer control
- 19-inch rack mountable with the supplied rack mount adaptor



Supplied accessories: AC power cable
Rack mount kit
Operation manual
Interface manual

Optional Accessory: Interface cable IFC-100 (2m)

Specifications

General

Power requirement: AC 120V, 50/60Hz
Power consumption: 35W
Dimensions: 424(W) × 54(H) × 446(D)mm
(18³/₄ × 2¹/₈ × 17⁵/₈ inches)
Weight: 6.5kg (14 lb 5 oz)

Video inputs

Composite video: 1.0Vp-p, 75Ω (BNC) with loop-through
S-video: Y: 1.0Vp-p, 75Ω
C: 0.286Vp-p, 75Ω (Mini DIN 4-pin)
R.G.B.: 0.7Vp-p, 75Ω (BNC × 3)*
Sync: 1.0 to 4.0Vp-p, 75Ω (BNC)
Y/R-Y/B-Y: Y: 1.0Vp-p, 75Ω
R-Y: 0.7Vp-p, 75Ω
B-Y: 0.7Vp-p, 75Ω (BNC × 3)*
* RGB or Y/R-Y/B-Y is selectable.
Reference video: 1.0Vp-p, 75Ω (composite video or black burst signal, with loop-through)

Video outputs

Composite video: 1.0Vp-p, 75Ω (BNC) with loop-through
S-video: Y: 1.0Vp-p, 75Ω
C: 0.286Vp-p, 75Ω (DIN 4-pin)
R.G.B.: 0.7Vp-p, 75Ω (BNC × 3)*
Sync: 4.0Vp-p, 75Ω (BNC)
Y/R-Y/B-Y: Y: 1.0Vp-p, 75Ω
R-Y: 0.7Vp-p, 75Ω
B-Y: 0.7Vp-p, 75Ω (BNC × 3)*
* RGB or Y/R-Y/B-Y is selectable.

Control signal input/output

RS-232C: RS-232C, D-sub 25-pin female for micro computer control
External control: Mini jack for MVR-5300/5400
CONTROL1(A): D-sub 9 pin, male, for MVR-5600/MVP-660 via IFC-100 interface cable
CONTROL1(B): D-sub 9 pin, female, for RM-52

Memory

Memory input: Odd field, Even field, Frame
Frame memory: Y:R-Y:B-Y = 4:1:1

Video

Picture effects: LAP DISSOLVE (transition time: 1.2s)
MOSAIC
POSTERIZATION
MULTI-PICTURE (3 × 3)
Gen lock: H phase: -0.5 to +1μs
SC phase: 0° to 360°

Note: When the MPU-F100A is synchronized with the timing of the camera signal output of the DXC-930 (in the low speed shutter mode), a special cable (CCMC-9DSMN) is required additionally.

1 Peripheral equipment

VCS-1000

Video selector

- For use in combination with the SVRM-960 Bi-directional remote controller for high quality picture monitoring
- Minimizes the signal reflections caused by long cable runs
- Up to 20 SVO-965 equipped with the SVBK-902 optional Bi-directional interface board can be connected to a single VCS-1000 •Loop-through output is provided for connection of up to 50 VCS-1000 units •19-inch EIA rack mountable in various directions •On-Line indicator •When the power is turned off, the LINE OUT becomes a loop-through output of the LINE IN for easy maintenance

Supplied accessories: Mounting brackets (EIA 2U width × 2, DIA 3U width × 2)
AC power cord
Operation manual

Specifications

General

Weight: Approx. 4kg (8 lb 13 oz)
Dimensions: 424(W) × 88(H) × 132(D)mm
(16³/₄ × 3¹/₂ × 5¹/₄ inches)

Power requirements: AC 120V, 50/ 60Hz
Power consumption: 8.5W max.

Maximum number of VTR connection: 20 units

Video

Video signal system: EIA monochrome, NTSC color
Frequency response: 6MHz, 100kHz reference
S/N ratio: More than 54dB

Audio

Frequency response: 20Hz to 20kHz, 1kHz -10dBu standard
S/N ratio: More than 85dB

RF video

Frequency response: 6MHz
S/N ratio: More than 54dB

Video inputs/outputs

Video in (from SVO-965):
BNC (×20), 1Vp-p, sync negative, 37.5Ω, unbalanced
Line in video (from previous VCS-1000):
BNC, 1Vp-p, sync negative, 75Ω, unbalanced
Line out video (to SVRM-960 or next VCS-1000):
BNC, 1Vp-p, sync negative, 75Ω, unbalanced

Control inputs/outputs

Control input (from SVO-965):
BNC (×20)
Rx*1 input: 1Vp-p, 37.5Ω, unbalanced
Tx*2 output: 1.4Vp-p, 37.5Ω, unbalanced
Line in control (from previous VCS-1000):
BNC
Tx input: 1Vp-p, 37.5Ω, unbalanced
Rx output: 1Vp-p, 37.5Ω, unbalanced
Line out control (to SVRM-960 or next VCS-1000):
BNC
Tx input: 1Vp-p, 37.5Ω, unbalanced
Rx output: 1Vp-p, 37.5Ω, unbalanced

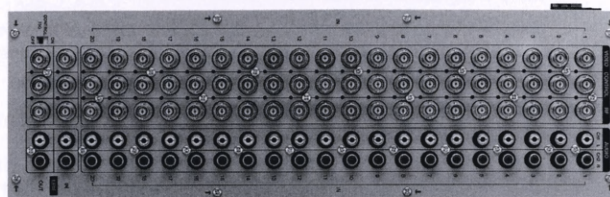
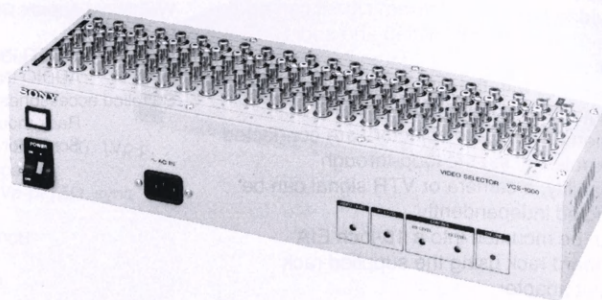
RF

RF IN (from the SVO-965):
BNC (×20), 1Vp-p, 37.5Ω, unbalanced
Line IN RF (from previous VCS-1000):
BNC, 1Vp-p, 75Ω, unbalanced
Line Out RF (to SVRM-960 or next VCS-1000):
BNC, 1Vp-p, 75Ω, unbalanced

Audio inputs/outputs

Audio Input (from SVO-965): Phono (2-channel × 20), high impedance, unbalanced
Line In audio (from previous VCS-1000):
Phono (2-channel), high impedance, unbalanced
Line Out audio (to SVRM-960 or next VCS-1000):
Phono (2-channel), high impedance, unbalanced

*1: Rx: Signal output from the SVRM-960
*2: Tx: Signal output from the SVO-965



1 Peripheral equipment

§VCS-63A

Video and audio selector

- A video and audio (stereo) signal can be selected from the six video and audio sources.
- Equipped with the loop-through out connectors for each input signal.
- When two or more selectors are connected in parallel, using the loop-through capability, a camera or VTR signal can be selected independently.
- Can be mounted into a 19-inch EIA standard rack using the supplied rack mount adaptor.

Dimensions:

Approx. 424(W) × 44(H) × 170(D)mm
(16³/₄ × 1³/₄ × 6³/₄ inches)

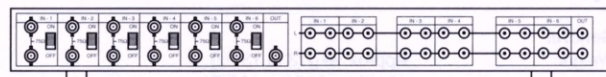
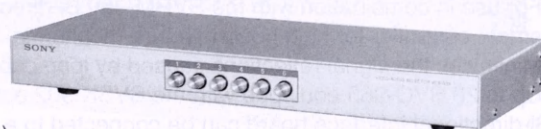
Weight: Approx. 3kg (6 lb 10 oz)

Connectors:

VIDEO IN/OUT—BNC type
AUDIO IN/OUT—PHONO

Supplied accessories:

Rack mount adaptor (×2)
Screw for rack mounting (×4)



VCS-500

Video and audio switcher with blanking switch facility

- The system using the VCS-500 can operate synchronously with the external sync or the video signal connected to the VIDEO IN-1 connector. The signal can be switched in the blanking portion so that switching noise is eliminated
- Up to five video and audio signals can be controlled
- Remote control is possible when an RM-V5 VTR selector is used
- DUB circuit switching function
- Can be mounted into 19-inch EIA standard rack

Inputs: Video—1Vp-p of rating, 75Ω, unbalanced, sync negative
Sync—3V ±1Vp-p, 75Ω, unbalanced, negative
Audio—LINE IN CH-1/CH-2, -5dB of rating, 47kΩ

Outputs: Video—Rated input ±0.2Vp-p, 75Ω, unbalanced, sync negative
Sync—3V ±1Vp-p, 75Ω,

unbalanced, negative
Audio—LINE OUT CH-1/CH-2, rated input ±2dB, 47kΩ

Frequency response:

Video ±1dB (up to 6MHz)
Audio 50 to 15,000Hz ±1dB

Connectors:

VIDEO IN/OUT—BNC
SYNC IN/OUT—BNC
AUDIO IN/OUT—Phono
REMOTE IN/OUT—20-pin
DUB IN/OUT—7-pin

Power requirements:

AC 100/110/120/127/220/240V
±10% (selectable), 50/60Hz

Power consumption:

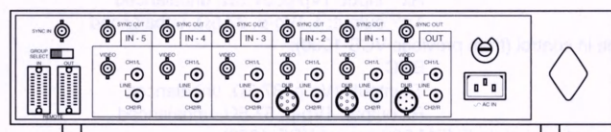
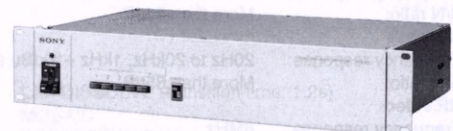
20W

Dimensions: 480(W) × 87(H) × 280(D)mm
(19 × 3¹/₂ × 11¹/₈ inches)

Weight: 7kg (15 lb 7 oz)

Supplied accessories:

AC power cord
Screw for rack mounting



§CFC-120

Color frequency converter

- Designed to be used with European standard U-matic videocassette tape recorders
- Converts NTSC color signals (subcarrier 3.58MHz) into NTSC_{4.43} signals (subcarrier 4.43MHz) or vice versa

Video input/output: 1Vp-p ±3dB, composite, 75Ω

Operating temperature: 0 to 40°C (32 to 104°F)

Power requirements:

AC 120V, 50/60Hz

Power consumption:

7W

Dimensions: 424(W) × 44(H) × 250(D)mm
(16⁷/₈ × 1³/₄ × 9⁷/₈ inches)

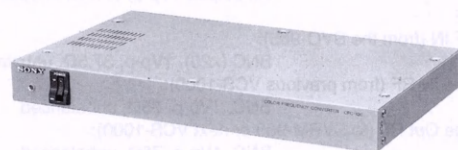
Weight: 4.2kg (9 lb 4 oz)

Input/output connectors:

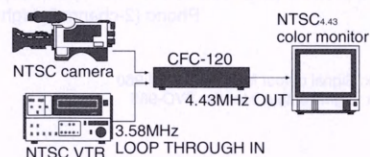
3.58MHz LOOP THROUGH IN to BNC × 2
3.58MHz OUT to BNC
4.43MHz LOOP THROUGH IN to BNC × 2
4.43MHz OUT to BNC

Supplied accessories:

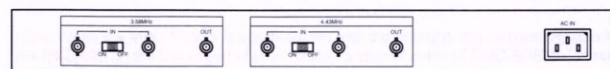
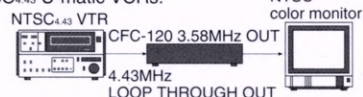
AC power cord
Rack mount kit
Rack mounting bracket (×2)
Ornamental washer (×4)
Screw+RK 5 × 14 (×4)
Operating manual



1. To provide NTSC color signals to NTSC_{4.43} color monitors.



2. To connect NTSC color monitors with NTSC_{4.43} U-matic VCRs.



1 Peripheral equipment

DA-1400

Video/audio distributor

- Two video/audio inputs and fourteen distribution outputs
- Four distribution patterns are available: Input signal A (1 to 14 ch), Input signal B (1 to 14 ch), Input signal A (1 to 7 ch)/Input signal B (8 to 14 ch), Input signal B (1 to 7 ch)/Input signal A (8 to 14 ch)
- Loop-through output connector for each input signal to expand the connection with other DA-1400s
- Video/audio level meters for adjusting and confirming the output signal levels
- Audio input level selector (−10dB/−6dB)
- 19-inch EIA standard rack mountable

Supplied accessories: AC power cord
Mounting brackets
(EIA 2U width: 1 pair)
Operation manual

General

Weight: 6kg (13 lb 23 oz)
Dimensions: 424(W) × 88(H) × 350(D)mm
(16³/₄ × 3¹/₂ × 13⁷/₈ inches)

Power requirements: AC 120V, 50/60Hz

Power consumption: 16W

Video

Inputs: Loop-through, BNC (×2), 1Vp-p, 75Ω, sync negative

Outputs: BNC (×14), 1Vp-p, 75Ω, sync negative

S/N ratio: Better than 60dB

Frequency response: 10MHz ± 1dB

Audio

Inputs: Loop-through, Phono (2-channel) (×2)

Input level: −10dBu/−6dBu switchable, 50kΩ

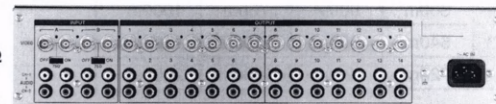
Outputs: Phono (2-channel) (×14)

Output level: −10dBu/−6dBu, 100Ω

S/N ratio: Better than 70dB at 600Ω

Frequency response: 20Hz to 20kHz ±1dB

Distortion: Less than 0.1%, −10dBu at 1kHz



DA-500

Color and monochrome video/audio distributor with DUB connectors

- Five Video/DUB/Audio outputs and one direct output
- DUB connectors are furnished so that a high quality video signal will be obtained
- Up to four DA-500s can be connected in series so that the input signal can be divided into as many as 20 separate signals
- Can be mounted into 19-inch EIA standard rack

Inputs: Video—1Vp-p of rating, 75Ω, unbalanced, sync negative
Audio—LINE CH-1/CH-2, −5dB of rating, 47kΩ, unbalanced

Outputs: Video—OUT 1 to 5, Rated input ±0.2Vp-p, 75Ω, unbalanced, sync negative
Audio—LINE CH-1/CH-2, Rated input ±2dB, 47kΩ

Connectors: VIDEO IN/OUT, DIRECT OUT—BNC

AUDIO IN/OUT, DIRECT OUT—Phono

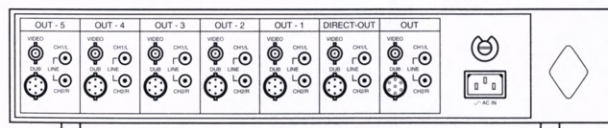
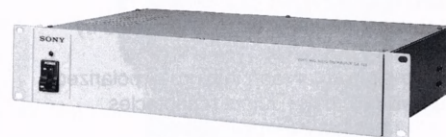
Power requirements: AC 100/110/120/127/220/240V ±10% (selectable), 50/60Hz

Power consumption: 20W

Dimensions: 480(W) × 87(H) × 280(D)mm
(19 × 3¹/₂ × 11¹/₈ inches)

Weight: 6.1kg (13 lb 7 oz)

Supplied accessories: AC power cord
Screw for rack mounting



DA-210

Color and monochrome video/audio distributor

- Distributes color/monochrome video and audio signals from one VTR or one color video camera to 15 monitors (5 monitors per 1 line output)
- For more monitor connections, several DA-210s can be connected in a chain fashion

Inputs: Video—1Vp-p, 75Ω, unbalanced, sync negative
Audio—Impedance: more than 20kΩ, unbalanced, 0dB

Outputs: Video—1Vp-p, 75Ω, sync negative, 1 bridge output, 3 line outputs
Audio—1 bridge output, 3 line outputs, high impedance, unbalanced, 0dB

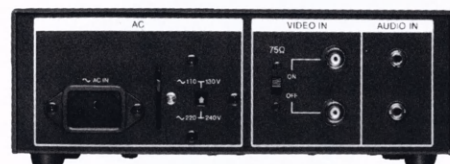
Connectors: VIDEO IN/OUT—BNC
AUDIO IN/OUT—Mini

Power requirements: AC 110 to 130/220 to 240V selectable, 50/60Hz

Power consumption: 4W

Dimensions: 214(W) × 75(H) × 170(D)mm
(8¹/₂ × 3 × 6³/₄ inches)

Weight: 2kg (4 lb 7 oz)
Supplied accessory: AC power cord



OTHER VIDEO EQUIPMENT AND ACCESSORIES

1 Peripheral equipment

VA-200E

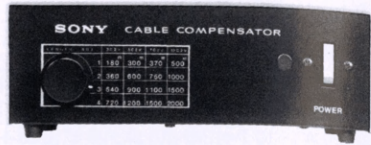
Cable compensator for stable color/monochrome video transmission

- Compensates for the attenuation caused by long-distance transmission of color/monochrome video signals with a coaxial cable
- Especially effective for the transmission of color video signals

Length adjustments

	3C-2V	5C-2V	7C-2V	10C-2V
1	180m	300m	370m	500m
2	360m	600m	750m	1000m
3	540m	900m	1100m	1500m
4	720m	1200m	1500m	2000m

Video input: 1.0Vp-p to 1.4Vp-p 75Ω, unbalanced
Video output: 1Vp-p, 75Ω, unbalanced
Frequency response: Flat to 4.5MHz ±2dB
Operating temperature: 0 to 40°C (32 to 104°F)
Connectors: VIDEO IN/OUT—UHF (M-type)
Power requirements: AC 110 to 130/220 to 240V selectable, 50/60Hz
Power consumption: 6W
Dimensions: 214(W) × 75(H) × 171(D)mm (8½ × 3 × 6¾ inches)
Weight: 1.4kg (3 lb 4 oz)
Supplied accessory: AC power cord



VR-10

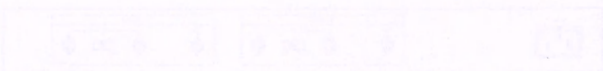
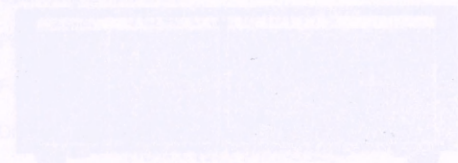
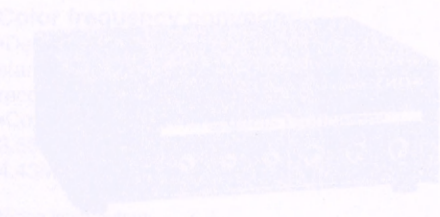
Auto transformer

- Input/output voltage is freely selected by selectors
- A two-pin plug, three-pin plug, or polarized plug will fit into the output receptacles

Input/output voltage: AC 100/110/120/127/220/240V, 50/60Hz
Capacity: 300VA max.
Dimensions: 160(W) × 150(H) × 145(D)mm (6⅜ × 6 × 5¾ inches)
Weight: 5.8kg (12 lb 13 oz)
Supplied accessories: Transformer holding bracket (×4)
Ground cable (2m)
Screw (×4)



CFC-120



2 Batteries and chargers

NP-1B

Rechargeable battery pack

- Supplies DC 12V to PVV-1A, UVW-100, VO-8800/6800, DXC-M7/537/537A/327/327A, EVW series, PVM-8044Q/8041Q/5041QM, TU-1040, EVM-8010R

Battery used: NiCd battery
Output voltage: DC 12V
Capacity: 2.3 Ah
Dimensions: Approx.
72(W) × 25(H) × 185(D)mm
(2⁷/₈ × 1 × 7³/₈ inches)
Weight: Approx. 600g (1 lb 5 oz)



BP-90A

Rechargeable battery pack

- Supplies DC 12V to PVV-1A, UVW-100, PVM-8044QM/8041QM/5041QM

Type of battery: NiCd rechargeable
Voltage: DC 12V
Current capacity: 4.5Ah
Dimensions: 123(W) × 171(H) × 37(D)mm
(4⁷/₈ × 6³/₄ × 1¹/₂ inches)
Weight: 1.6kg (31 lb 8 oz)



BC-1WD

Battery charger for NP-1B

- Battery charger for the NP-1B battery pack
- Up to four NP-1B batteries can be charged
- Auto refresh function
- Battery life indication
- Skips charging process for fully charged batteries

Power requirements: AC 120V ±10%, 50/60Hz
Power consumption: 65W
Charging time: Approx. 90min
Dimensions: 107.5(W) × 88(H) × 325(D)mm
(4¹/₄ × 3¹/₂ × 12⁷/₈ inches)
Weight: Approx. 1.7kg (3 lb 5 oz)

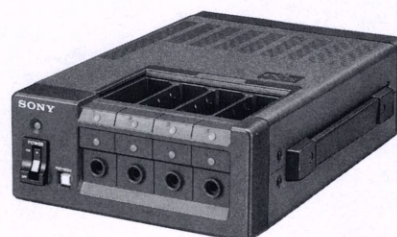


BC-410

Battery charger for BP-90A/NP-1B

- Battery charger for BP-90A and NP-1B
- Up to four BP-90As and four NP-1Bs can be charged
- Battery refreshing function
- Trickle charge to avoid self-discharge

Power requirements: AC 100/120V selectable, 50/60Hz
Power consumption: 75W
Charging time: BP-90A: 160 min
NP-1B: 90 min
Dimensions: 212(W) × 85(H) × 325(D)mm
(4¹/₂ × 3³/₈ × 12⁷/₈ inches)
Weight: 4kg (8 lb 13 oz)
Supplied accessories: AC power cord
Operation/maintenance manual



2 Batteries and chargers

DC-520

Battery adaptor for NP-1B

- Can be attached to the supplied battery case of the PVV-1A and UVW-100
- Allows the PVV-1A and UVW-100 to be operated with two NP-1B batteries
- Supplies DC 12V to the PVV-1A and UVW-100

Dimensions: 100(W) × 195(H) × 44(D)mm
(4 × 7³/₄ × 1³/₄ inches)
Weight: 230g (8 oz)
Supplied accessories:
Screws (M3 × 6)



DC-500 (Mount type)

Battery case for BP-90A

- Battery case for one BP-90A battery
- Designed for the PVV-1A and UVW-100
- Supplies DC 12V

Dimensions: 147(W) × 207(H) × 62(D)mm
(5⁷/₈ × 8¹/₄ × 2¹/₂ inches)
Weight: 400g (14 oz)
Supplied accessories:
Screws (M3 × 5)

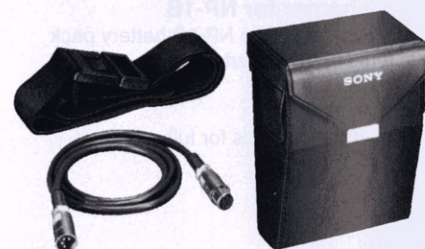


DC-210 (waist belt type)

Battery case for BP-90A

- Battery case for one BP-90A battery pack
- Supplies DC 12V to Sony video equipment

Dimensions: 145(W) × 180(H) × 85(D)mm
(5³/₄ × 7¹/₈ × 3³/₈ inches)
Weight: 500g (1 lb 2 oz)
Supplied accessories:
Power cord (1.2m)
Belt



3 System consoles

Basic Consoles

System consoles

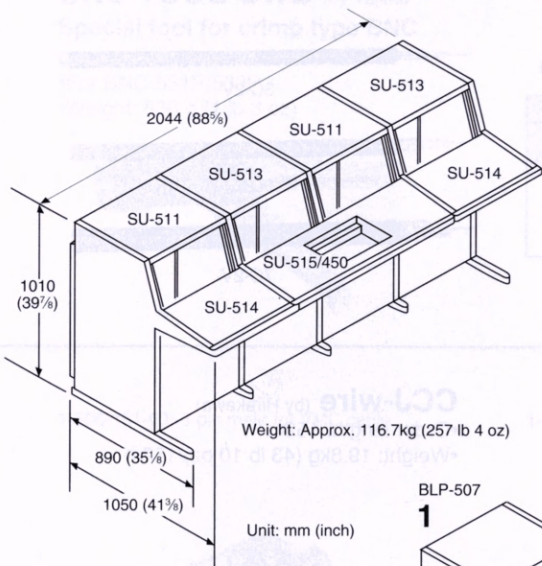
- SU-450 Double size table for RM-450/DME-450
- SU-511 Unit rack
- SU-512 Unit table
- SU-513 Extension rack
- SU-514 Extension table
- SU-515 Double size table for RM-440
- CT-501 Caster

Rack mount metals

- RMM-450 For RM-450/DME-450 mounting
- RMM-501 For VO-9850/9800Type-5/9 series VTR mounting
- RMM-502 For RM-500 or RM-V5 mounting
- RMM-503 For RM-580 mounting
- RMM-504 For RM-440 mounting
- RMM-505 For RM-500 (x 2), RM-V5 (x 2) or RM-500/RM-V5 mounting
- RMM-506 For Betamax or audio equipment mounting
- RMM-507 For Type-7/9 series VTR mounting (except VO-9850/9800)
- RMM-980 For EVO-9800/9850 mounting

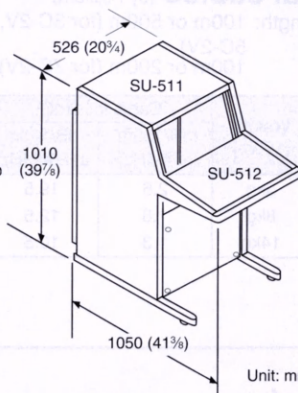
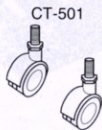
Blank panels

- BLP-501 1U Blank panel
- BLP-502 2U Blank panel
- BLP-503 3U Blank panel
- BLP-504 1U Pad panel
- BLP-505 2U Pad panel
- BLP-506 6U Modification panel
- BLP-507 Blank panel



Weight: Approx. 116.7kg (257 lb 4 oz)

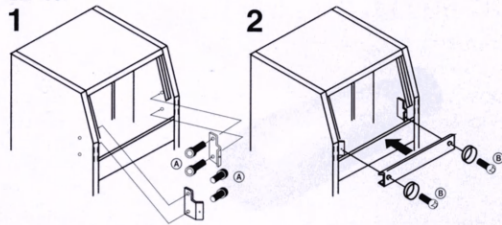
Unit: mm (inch)



Weight: Approx. 37.2kg (82 lb) without VTR

Unit: mm (inch)

BLP-507

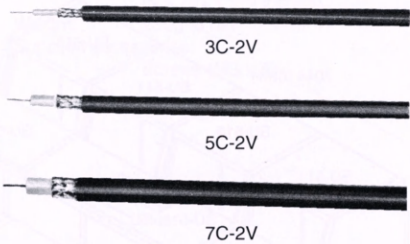


4 Wires and connectors

Coaxial cables (by Fujikura)

- Order length: 100m or 500m (for 3C-2V, 5C-2V)
100m or 200m (for 7C-2V)

Cable	Weight (100m)	Cable loss (dB)	
		(dB/100m, at 4MHz)	(dB/100m, at 200MHz)
3C-2V	5kg	2.6	19.5
5C-2V	8kg	1.8	12.5
7C-2V	14kg	1.3	10.5



CCF-wire (by Taisho)

- Order length: 145m or 290m
- Weight: 6.2kg (13 lb 11 oz)/145m
12.5kg (27 lb 6 oz)/290m

CCQ-wire (by Hirakawa)

- Order length: 152m
- Weight: 23.2kg (51 lb 2 oz)/152m

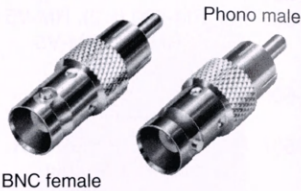
CCJ-wire (by Hirakawa)

- Order length: 152m
- Weight: 19.8kg (43 lb 10 oz)/152m

EAC-58

Interconnection adaptor

- Phono (male) to BNC (female)
- 2pcs in one package



CCQQ-1

Interconnection adaptor

- Adaptor for extension of CCQ series cable



CCZZ-1E

CCZ cable extension connector



CCZZ-1B

Bulk-head connector



BNCP-UHFJ (by Musashi)

Interconnection adaptor

- BNC (male) to UHF (female)
- Order unit: 1 pkg/20 pcs
- Weight: 0.5kg (20 pcs)



BNC-117P (by Tajimi)

BNC connectors for 3C-2V, 5C-2V

- Order unit: 1 pkg/20 pcs
- Weight: 0.44kg (20 pcs)



BNC-111-TP (by Tajimi)

BNC-75Ω dummy plug

- Order unit: 1 pkg/10 pcs
- Weight: 0.2kg (10 pcs)



BNC-531P/533P (by Tajimi)

Crimp type BNC connector

- Use BNC-TOOL-CWB for wire connection
- Order unit: 1 pkg/50 pcs
- BNC-531P for 3C-2V, 0.63 kg (50 pcs)
- BNC-533P for 5C-2V, 0.65 kg (50 pcs)



UHFP-BNCJ (by Musashi)

Interconnection adaptor

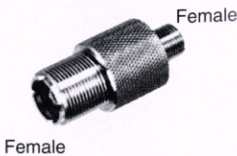
- UHF (male) to BNC (female)
- Order unit: 1 pkg/20 pcs
- Weight: 500g (20 pcs)



FJ-MJ (by Musashi)

Interconnection adaptor

- F-type—UHF (M-type)
- Order unit: 1 pkg/20 pcs
- Weight: 1.0kg (20 pcs)



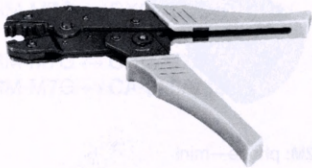
4 Wires and connectors

BNC-A-JJ (by Musashi)
Interconnection adaptor
•For BNC type
•Order unit: 1 pkg/20 pcs
•Weight: 260 g (20 pcs)



Female

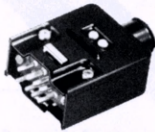
BNC-TOOL-CWB (by Tajimi)
Special tool for crimp type BNC connectors
•For BNC-531P/533P
•Weight: 530 g (1 lb 3 oz)



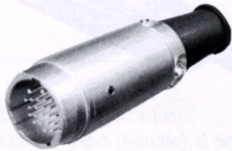
Part No.
1-508-054-00: 6-pin male for CCF cable



1-506-161-00: 8-pin male for VMC cable



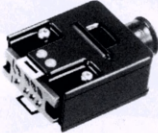
1-508-929-00: 14-pin male for CCQ cable



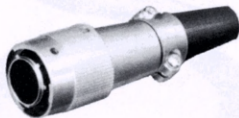
1-509-100-00: 6-pin female for CCF cable



1-509-113-00: 8-pin female for VMC cable



1-561-043-00: 14-pin female for CCQ cable



1-508-171-00: 10-pin male for CCJ cable



1-508-200-00: 4-pin male for tally lamp circuit



1-508-172-00: 10-pin female for CCJ cable



1-508-459-00: Aerial connector



4 Wires and connectors

Plug adaptors for audio equipment



PC-201M: mini—phone



PC-202M: phone—mini



PC-205M: phono—mini



PC-208MS: mini-stereo phone



PC-219M: phono-phono (both male)



PC-220M: phono-phono (both female)



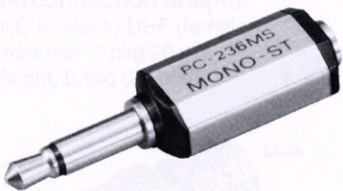
PC-221M: mini-phono



PC-222M: mini-mini (both female)



PC-234S: stereo phone—stereo mini



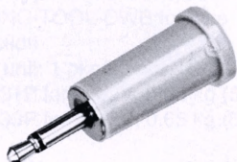
PC-236MS: mini—stereo mini



Phone plug
Part No: 1-506-327-21 (plug with sleeve)



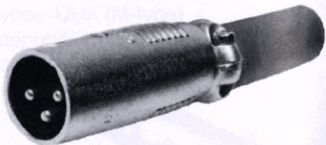
Phono plug
Part No: 1-506-138-11 (Red)
Part No: 1-506-138-12 (White)



Mini plug
Part No: 1-506-012-00



XLR-3-11C
3-pin Cannon (female)
Part No: 1-508-083-00



XLR-3-12C
3-pin Cannon (male)
Part No: 1-508-084-00

OTHER VIDEO
EQUIPMENT AND
ACCESSORIES

5 Connecting cables

BNC-M cables (BNC/UHF)

BNC-M2 : 2m (6.4 ft)
BNC-M5 : 5m (16.4 ft)

- BNC (male) ↔ UHF (male)



CCA-7 cables (10-pin/10-pin)

CCA-7-5 : 5m (16.5 ft)
CCA-7-25 : 25m (82 ft)
CCA-7-50 : 50m (165 ft)
CCA-7-100 : 100m (330 ft)

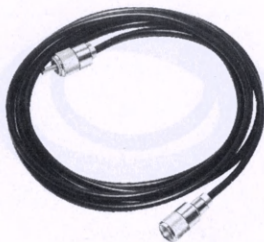
- 10-pin (male) ↔ 10-pin (female)
- RM-M7G ↔ DXC-M7/537/537A/
327/327A series
- RM-M7G ↔ CCU-M7/M5
- RM-M7G ↔ CA-325A/325B



CCD cables (UHF/UHF)

CCD-3-1W : 3C2V, 1m (3.3 ft)
CCD-3-3W : 3C2V, 3m (10 ft)
CCD-5-5W : 5C2V, 5m (16.4 ft)
CCD-5-10W : 5C2V, 10m (33 ft)
CCD-5-25W : 5C2V, 25m (82 ft)
CCD-5-50W : 5C2V, 50m (164 ft)

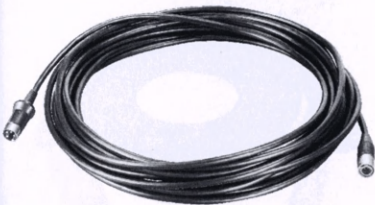
- UHF (male) ↔ UHF (male)



CCDC cables (12-pin/4-pin)

CCDC-5 : 5m (16.4 ft)
CCDC-10 : 10m (33 ft)
CCDC-25 : 25m (82 ft)

- 12-pin (female) ↔ 4-pin (male)
- DXC-107A/151A/930, AVC-D5/
D7 ↔ CMA-D2
- RM-930 ↔ CMA-D2



CCDC-A cables (12-pin/4-pin)

CCDC-50A : 50m (164 ft)
CCDC-100A : 100m (330 ft)

- 12-pin (female) ↔ 4-pin (male)
- DXC-107A/151A/930, AVC-D5/
D7 ↔ CMA-D2
- RM-930 ↔ CMA-D2



CCDD-2.5 (4-pin/4-pin)

- 4-pin (male) ↔ 4-pin (female), 2.5m (8.2 ft)
- SEG-2000A series ↔ CRK-2000



CCDQ-06 (14-pin/4-pin)

- 14-pin (male) ↔ 4-pin (male), 0.6m (2 ft)



CCF cables (6-pin/6-pin)

CCF-1 : 1m (3.3 ft)
CCF-5 : 5m (16.4 ft)
CCF-10 : 10m (33 ft)
CCF-25 : 25m (82 ft)
CCF-50 : 50m (164 ft)

- 6-pin (male) ↔ 6-pin (female)
- AVC series B/W cameras ↔ AV series
VTRs
CRK-2000
SEG-2000A
- SEG-2000A/2550A ↔ WEX-2000



CCJ cables (10-pin/10-pin)

CCJ-1 : 1.6m (5 ft)
CCJ-5 : 5m (16.4 ft)
CCJ-10 : 10m (33 ft)

- 10-pin (male) ↔ 10-pin (female)
- AVC portable cameras ↔ AV portable
VTRs



OTHER VIDEO
EQUIPMENT AND
ACCESSORIES

5 Connecting cables

CCJQ-05 (14-pin/10-pin)

- 14-pin (male) ↔ 10-pin (female), 0.5m (1.6 ft)



CCMC cables (12-pin/12-pin)

- CCMC-12P02 : 2m (6.4 ft)
- CCMC-12P05 : 5m (16.4 ft)
- CCMC-12P10 : 10m (33 ft)
- CCMC-12P25 : 25m (82 ft)

- 12-pin (male) ↔ 12-pin (female)
- AVC-D7/DXC-107A series ↔ CMA-D7
- AVC-D5/D7 ↔ CMA-D2
- DXC-151A/107A/930 ↔ CMA-D2
- DXC-930 ↔ RM-930
- RM-930 ↔ CMA-D2



CCMC-12P10C (12-pin/12-pin)

- 12-pin (male) ↔ 12-pin (female), 10m (33ft)
- DXC-C1 Camera Head ↔ DXC-C1 Camera Control Unit



CCMC-9DS (9-pin/4BNCs, DIN 4-pin)

- 9-pin D-sub (male) ↔ BNCs (R/G/B/ SYNC, male), DIN 4-pin (Y/C, male)
- 5m (16.4 ft)
- For video output from DXC-151A/930



CCTQ-3RGB (20-pin/14-pin)

- DXC-930 ↔ CCU-M5 (with CCQ-AM cable), 3m (10 ft)
- CCQQ-1 interconnection adaptor is supplied
- RGB/VBS output to CCU-M5



CCTZ-3RGB (20-pin/26-pin)

- DXC-930 ↔ CCU-M7/M5 (with CCZ-A cable), 3m (10 ft)
- CCZZ-1E interconnection adaptor is supplied
- RGB/VBS output to CCU-M7/M5



CCTZ-3YC (20-pin/26-pin)

- DXC-930 ↔ CCU-M7/M5 (with CCZ-A cable), 3m (10 ft)
- CCZZ-1E interconnection adaptor is supplied
- YC/VBS output to CCU-M7/M5



CCQ-AM cables (14-pin/14-pin)

- CCQ-10AM : 10m (33 ft)
- CCQ-25AM : 25m (82.5 ft)
- CCQ-50AM : 50m (165 ft)
- CCQ-100AM : 100m (330 ft)

- 14-pin (male) ↔ 14-pin (female)
- DXC-327 ↔ CCU-M3



CCQ-AR cables (14-pin/14-pin)

- CCQ-2AR : 2m (6.4 ft)
- CCQ-5AR : 5m (16.4 ft)
- CCQ-10AR : 10m (33 ft)
- CCQ-25AR : 25m (82.5 ft) only for projector
- CCQ-50AR : 50m (165 ft) only for projector

- 14-pin (male) ↔ 14-pin (female)
- DXC-327 ↔ VO-8800/CMA-7/8A/9



5 Connecting cables

CCQ-BRS cables (14-pin/14-pin)

- CCQ-2BRS : 2m (6.4 ft)
- CCQ-5BRS : 5m (16.4 ft)
- CCQ-10BRS : 10m (33 ft)
- CCQ-25BRS : 25m (82.5 ft) only for projector
- CCQ-50BRS : 50m (165 ft) only for projector

- 14-pin (male) ↔ 14-pin (female)
- DXC-327 ↔ VO-8800/
- CMA-7/8A/9
- VPH-1031Q/1042Q/1000Q ↔
- VPR-722/722S
- VPH-1272Q/1271Q/1252Q/
- 1251Q/RVP-6000Q/4010Q/400Q/
- VPL-350Q ↔ PC-1271/1270



CCQJ-2 (14-pin/10-pin)

- 14-pin (female) ↔ 10-pin (male), 2m (6.6 ft)
- DXC-327 ↔ 1/2-inch VHS VTRs



CCQK-2 (14-pin/14-pin)

- 14-pin (Q-Type female) ↔ 14-pin (K-type male)
- DXC-327 ↔ Betamax (ex. SL-2000)



CCQX-3 (14-pin/XLR 4-pin)

- 14-pin (male) ↔ XLR 4-pin (female), 3m (10 ft)
- For external DC input to DXC-M7/EVW series from CMA-8A



CCXC-9DB (9-pin/5BNCs)

- 9-pin D-sub (male) ↔ BNCs (R/G/B/ SYNC/VBS) (male)
- 5m (16.4 ft)
- For video output from DXC-151A/930



CCXC-9DD (9-pin/9-pin)

- 9-pin D-sub (male) ↔ 9-pin D-sub (male)
- 5m (16.4 ft)
- For video output from DXC-151A/930



CCZ-A cables (26-pin/26-pin)

- CCZ-A2 : 2m (6.5 ft)
- CCZ-A5 : 5m (16.5 ft)
- CCZ-A10 : 10m (33 ft)
- CCZ-A25 : 25m (82 ft)
- CCZ-A50 : 50m (164 ft)
- CCZ-A100 : 100m (330 ft)

- 26-pin (male) ↔ 26-pin (female)
- DXC-M7/537/537A/327A series ↔
- CCU-M7/M5
- DXC-755 Camera head ↔
- Camera control unit
- UVW-100 ↔ BVW-50



CCZ-M cables (26-pin/26-pin)

- CCZ-M10 : Extension cable, 10m (33 ft)
- CCZ-M100 : Extension cable, 100m (330 ft)



CCZJ cables (10-pin/26-pin)

- CCZJ-2 : 2m (6.6 ft)
- CCZJ-5 : 5m (16.5 ft)

- 26-pin (male) ↔ 10-pin (female)
- DXC-M7/537/537A/327A series ↔
- 1/2-inch VHS VTRs



5 Connecting cables

CCZQ-A cables (14-pin/26-pin)

CCZQ-A2 : 2m (6.6 ft)

CCZQ-A5 : 5m (16.5 ft)

CCZQ-A10 : 10m (33 ft)

- 14-pin (male) ↔ 26-pin (female)
- UVW-100, DXC-M7/537/537A/327A series ↔ VO-8800
- DXC-M7/537/537A/327A series ↔ CMA-8A



CCZQ-A2AM cable (14-pin/26-pin)

- 14-pin (male) ↔ 26-pin (female)



RC-75 (8-pin/8-pin)

Extension cable for TGR-325/750

- 8-pin (male) ↔ 8-pin (female), 3m (10 ft)
- DXC-325 series ↔ TGR-325
- DXC-755 ↔ TGR-750



RCC-A cables (15-pin/15-pin)

RCC-5A : 5m (16 ft)

RCC-11A : 10m (33 ft)

- 15-pin (male) ↔ 15-pin (female)
- BVE-600 ↔ MXP-290
- BVE-910 (with BKE-916A) ↔ MXP-290



RCC-5AA cable (9-pin/15-pin)

Audio mixer control cable

- 9-pin (male) ↔ 15-pin (female), 5m (16ft)
- PVE-500 ↔ MXP-290



RCC-5F (33-pin/33-pin)

Remote control cable

- 33-pin (male) ↔ 33-pin (female), 5m (16.4 ft)
- RM-440/450/500/555/580 ↔ All Type-5/7/9 VTRs EVO-9800/9850



RCC-15FT (33-pin/33-pin)

Remote control extension cable

- 33-pin (male) ↔ 33-pin (female), 15m (49.2 ft)
- RM-440/450/500/550/580 ↔ All Type-5/7/9 VTRs, EVO-9800/9850



RCC-G cables (9-pin/9-pin)

RCC-5G : 5m (16 ft)

RCC-10G : 10m (33 ft)

RCC-30G : 30m (99 ft)

- 9-pin (male) ↔ 9-pin (male)
- RM-450 ↔ VO-9850/9800/EVO-9850/9800, BVU/BVW/BVH series VTR
- PVW-series VTRs, UVW-1800/1600 ↔ 9-pin equipped Sony machines



SIC-M cables (14-pin/14-pin)

SIC-M1 : 1m (3.3ft)

SIC-M5 : 5m (16.4ft)

SIC-M15 : 15m (49ft)

SIC-M25 : 25m (82ft)

SIC-M50 : 50m (164ft)

- 14-pin (male) ↔ 14-pin (female)
- VPH-1031Q/1042Q/1000Q ↔ VPR-722S
- VPH-1272Q/1271Q/1252Q/1251Q, RVP-6000Q/4010Q/400Q ↔ PC-1271/1270



5 Connecting cables

SYC cables (4-pin/4-pin)

- SYC-2 : 2m (6.4 ft)
- SYC-5 : 5m (16.4 ft)

- EVO-9850 ↔ PVW series VTR
- SVO-9600/SVP-9000 ↔ EVO-9850/
9800A/9720/
9500A



UGC cables (BNC/BNC)

- UGC-0.5 : 0.5m (1.6 ft)
- UGC-1 : 1m (3.3 ft)
- UGC-2 : 2m (6.4 ft)
- UGC-5 : 5m (16.4 ft)
- UGC-10 : 10m (33 ft)
- UGC-25 : 25m (82.5 ft)

- BNC (male) ↔ BNC (male), 3C-2V



VDC-5A (7-pin/7-pin)

Dubbing cable

- 7-pin (male) ↔ 7-pin (female), 5m (16.4 ft)
- VTRs with ↔ VTRs with
- DUB connector DUB connector
- VCS-500
- DA-500
- DA-500 ↔ DA-500
- PVW-series VTRs ↔ VO-9800/9850
- EVO-9850 ↔ VO-9800/9850



VDC-C5 (12-pin/12-pin)

Dubbing cable

- 12-pin/12-pin, 5m (16 ft)
- PVW series VTRs
- UVW-1800/1600



VMC cables (8-pin/8-pin)

- VMC-3P : 3m (10 ft)
- VMC-5P : 5m (16.4 ft)
- VMC-10P : 10m (33 ft)
- VMC-25P : 25m (82 ft)
- VMC-50P : 50m (164 ft)

- 8-pin (male) ↔ 8-pin (male)
- VTR ↔ Monitor
TV tuner
- TV tuner ↔ projector



VMC-1H (8-pin female/8-pin female)

- 8-pin male-to-male connector
- Connect two 8-pin cables



VMC-1M (10-pin/8-pin)

- 10-pin (male) ↔ 8-pin (male), 1.5m (5 ft)
- Monitor ↔ AV portable VTR
VO-3800



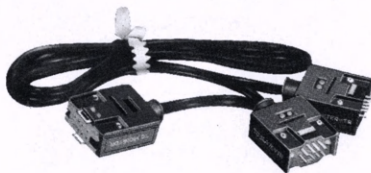
VMC-1MQ (14-pin/8-pin)

- 14-pin (male) ↔ 8-pin (male), 1.5m (5 ft)
- VO-4800/6800/8800 ↔ Monitor
TV tuner



VMC-1N (8-pin/8-pin)

- 8-pin (male) ↔ 8-pin (male)/(female)
- Open reel VTR ↔ Open reel VTR and
monitor



OTHER VIDEO
EQUIPMENT AND
ACCESSORIES

5 Connecting cables

VK-110A/120A (4-pin/4-pin)

VK-110A : 10m (33 ft)
VK-120A : 20m (65.6 ft)

- 4-pin (male) ↔ 4-pin (male)
- SSC-520AM ↔ SSM-721AMR

VK-305 (4-pin/4-pin)

- 4-pin (male) ↔ 4-pin (female) , 5m (16.4 ft)
- Water-resistant extention cable
- SSC-520AM ↔ SSM-721AMR

VK-310A/318A/320A (4-pin/4-pin)

VK-310A : 10m (33 ft)
VK-318A : 18m (59 ft)
VK-320A : 20m (65.6 ft)

- 4-pin (male) ↔ 4-pin (male)
- SSC-520AM ↔ SSM-721AMR



R460S

R380S (by Canare)

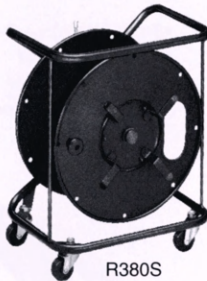
Cable reel for video and audio cables

Reel capacity

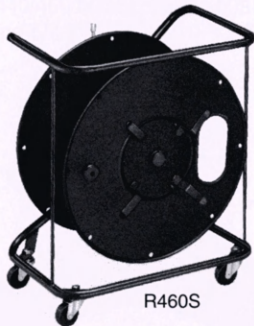
Cable	CCQ-cable	CCX-cable	CCW-cable	L-4E6S (Audio cable)
R460S	150m (492 ft)	110m (361 ft)	100m (328 ft)	500m (1640 ft)
R380S	80m (262 ft)	60m (197 ft)	50m (164 ft)	300m (984 ft)

Dimensions and weight:

R460S 480(W) × 580(H) × 340(D)mm, 9.9kg (21 lb 13 oz)
(19 × 22⁷/₈ × 13¹/₂")
R380S 420(W) × 500(H) × 290(D)mm, 8kg (17 lb 10 oz)
(16⁵/₈ × 19³/₄ × 11¹/₂")



R380S



R460S

Cable connections

		Video camera									
		DXC-M7	DXC-537	DXC-537A	DXC-327	DXC-327A	DXC-930	DXC-107A	DXC-151A	AVC-D7	AVC-D5
Camera control unit	VO-8800	CCZQ-A	CCZQ-A	CCZQ-A	CCQ-AR/BRS*	CCZQ-A					
	CCU-M7	CCZ-A	CCZ-A	CCZ-A		CCZ-A	CCTZ-3RGB/3YC+ CCZ-A				
	CCU-M5	CCZ-A	CCZ-A	CCZ-A	CCQ-AM	CCZ-A	CCTZ-3RGB/3YC+ CCZ-A or CCTQ-3RGB+ CCQ-AM				
Camera I/O adaptor	CMA-8A	CCZQ-A/CCQX-3	CCZQ-A	CCZQ-A	CCQ-AR/BRS*	CCZQ-A					
	CMA-9				CCQ-AR/BRS						
	CMA-D7							CCMC-12P/UGC		CCMC-12P/UGC	
	CMA-D2						CCDC/CCMC-12P	CCDC/CCMC-12P	CCDC/CCMC-12P	CCDC/CCMC-12P	CCDC/CCMC-12P

*For Y/C signal transmission, CCQ-BRS cables must be used.

OTHER VIDEO
EQUIPMENT AND
ACCESSORIES

Audio monitor cable



MPC-03-SC: XLR-3-11C type (female)—mini 3m
 •-9dB built-in attenuation
 •Impedance matching register

Audio connecting cords



RK-5XLRF

RK-5XLRF: XLR-3-11C type (female)—phono, 5m
RK-5XLRM: XLR-3-12C type (male)—phono, 5m



RK-G34: mini—mini, 3m



RK-G50: mini—phono, 1.5m



RK-C515KS: phono—phono, 1.5m



RK-C111: phono (male)—phono (female), 1.5m
 Extension cable for RK-C5/5KS



RK-C102: phono (x2)—phono (x4), 1.5m



RK-G105: mini-phono (x2), 1.5m

PVM-1444PM



PVM-9044PM



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Super fine pitch

VO-7600PM

Gravador
A operação Código de Gravação e a busca automática
preciso gerando também o código de gravação
sotilidade. O código de gravação é gerado através
do BKU-771. O código de gravação é gerado através
para o código de gravação. O código de gravação é gerado
possibilidade de gravação de código de gravação de 33
pinos de 33 pinos. O código de gravação é gerado de 33
pinos. O código de gravação é gerado de 33 pinos.
Remoção de código de gravação. O código de gravação é gerado
opcional. O código de gravação é gerado de 33 pinos.
MARK IN A. O código de gravação é gerado de 33 pinos.
sincronização. O código de gravação é gerado de 33 pinos.
quadro e uma. O código de gravação é gerado de 33 pinos.
razões as diferenças. O código de gravação é gerado de 33 pinos.
Fotografia de quadro e uma. O código de gravação é gerado de 33 pinos.
posição para pausa. Auto-diagnóstico para monitoramento
do serviço de verificação com indicação de valores e
defeitos. Compacto e leve (4 unidades, 17kg).

1 Videocassette recorders

VP-7000PM

Reprodutor

- A operação de Código de Quadro torna o acesso aleatório preciso possibilitando também operações de programa sofisticado
- Um computador externo pode controlar através do BKU-701 Computer Interface Board (Quadro de Interface para Computador BKU-701), (Interface RS-232C)
- Possibilidade de interface de controle remoto paralelo de 33-pinos com o 33-pin Interface Board (Quadro interface de 33 pinos)
- Controle remoto sem fio/com fio através da RM-770 Remote Control Unit (Unidade de Controle Remoto RM-770), opcional
- Operação programada com capacidade para MARK IN A e MARK IN B
- Capacidade para aceitar uma sincronização externa com outras máquinas
- Busca de quadro a uma velocidade 5 vezes superior à normal, em ambas as direções, ou seja, para diante ou para trás
- Paralização de quadro sem deformação pode ser obtido na posição para pausa
- Auto-diagnóstico para melhoramento do serviço de verificação com indicação de vários erros e defeitos
- Compacto e leve (4 unidades, 16kg)



VO-7600PM

Gravador

- A operação de Código de Quadro torna o acesso aleatório preciso possibilitando também operações de programa sofisticado
- Um computador externo pode controlar através do BKU-701 Computer Interface Board (Quadro de Interface para Computador BKU-701), (Interface RS-232C)
- Possibilidade de interface de controle remoto paralelo de 33-pinos com o 33-pin Interface Board (Quadro interface de 33 pinos)
- Controle remoto sem fio/com fio através da RM-770 Remote Control Unit (Unidade de Controle Remoto RM-770), opcional
- Operação programada com capacidade para MARK IN A e MARK IN B
- Capacidade para aceitar uma sincronização externa com outras máquinas
- Busca de quadro a uma velocidade 5 vezes superior à normal, em ambas as direções, ou seja, para diante ou para trás
- Paralização de quadro sem deformação pode ser obtido na posição para pausa
- Auto-diagnóstico para melhoramento do serviço de verificação com indicação de vários erros e defeitos
- Compacto e leve (4 unidades, 17kg)



2 Monitors

PVM-1444PM

•Adotado o padrão de fósforo EBU •Entrada de sinais componente (Y, R-Y, B-Y)/RGB •Super Fine Pitch CRT que assegura a alta resolução de 600 linhas horizontais (Vídeo composto) •Beam current feed back, circuito para estabilizar o balanço de cor •Tecla de função preset •2 padrões de cores (NTSC/PAL-M) •Temperatura de cor 6500K/9300K (Fabrica 6500K) •Adaptável para rack de 19-inch EIA com opcional MB-502A e SLR-102 •Externo SYNC ou entrada rende com SYNC

Peso:	16.5 kg (36 lb, 6 oz)
Consumo:	Max 99 W
Dimensão:	346 (L) × 340 (A) × 412 (P) mm



Super fine pitch

PVM-9044PM

Monitor de vídeo e audio á cores de 9 polegadas

•A imagem de sub-exploração (underscan) e de retardo H/V pode ser verificada •Várias fontes de força, tais como bateria NP-1A ou NP-1B, bateria BP-90A e também a tomada normal de força •Especialmente adequada para camara à cores portátil VTR portátil •Duas entradas (A e B) •Controles com travamento por botão para proteção contra danos e fácil ajuste dos controles •Recarregador embutido para bateria NP-1A (× 2) •Função de redução de quadro e padrão azul



3 Frame memory unit

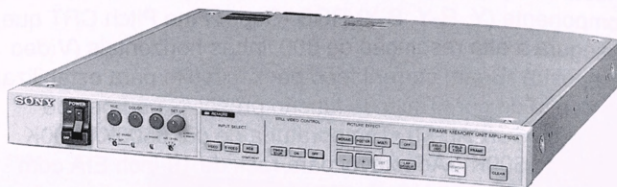
MPU-F101PM

Multiprocessador de vídeo (TBC e memória de frame)

•Admite como entrada os seguintes sinais de vídeo: sinal vídeo composto em sistema NTSC, Y/C e vídeo componente (RGB ou Y/R-Y/B-Y selecionáveis), com saída transcodificada para Sistema PAL-M •Aceita entrada de sinais de vídeo assíncronos, sincronizando-os com o sinal referência de sincronismo e tem como saída os sinais de vídeo sincronizados •Tem correção de erro de base de tempo para eliminar erros de Skew e Jitter •Controle de fase de subportadora (SC) e pulso de sincronismo horizontal (H Sync) •Múltiplas entradas/saídas; vídeo composto; vídeo componente (RGB ou Y/R-Y/B-Y selecionáveis) e Y/C (S-vídeo) separados •Funções de efeitos em vídeo simplificados; mosaico, posterização e múltiplas imagens (3 × 3) •Capacidade de Gen Lock externo para vídeo composto ou sinal de Black Burst •Sincronização com o sinal de saída da câmera colorida de 3 CCD Sony DXC-930 no modo shutter de baixa velocidade (velocidade de shutter: 1 à 255 frames em Field Mode, 2 à 256 frames em Frame Mode) aplicáveis para processamento de imagem ou aplicações em análises •Controle de sinal de vídeo, nível de cor, nível de vídeo, nível de Set Up dos sinais de vídeo composto e Y/C •Três níveis de redução de ruído para imagens em modo "Still" •Interface RS-232C para controle externo por computador •Adaptável em rack de 19 polegadas com o adaptador para rack fornecido com o equipamento

Acessório fornecidos: Cabo de alimentação AC
Kit de montagem em rack
Manual de operação
Manual de interface

Acessório opcional: Cabo de interface IFC-100 (2m)



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